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# **Synopsis of the Parasites of Vertebrates of Canada**

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## **Helminths and Protozoa of Terrestrial Mammals**

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Murray J. Kennedy  
Alberta Agriculture  
Veterinary Laboratory  
6909 - 116 Street  
Edmonton, Alberta  
Canada T6H 4P2

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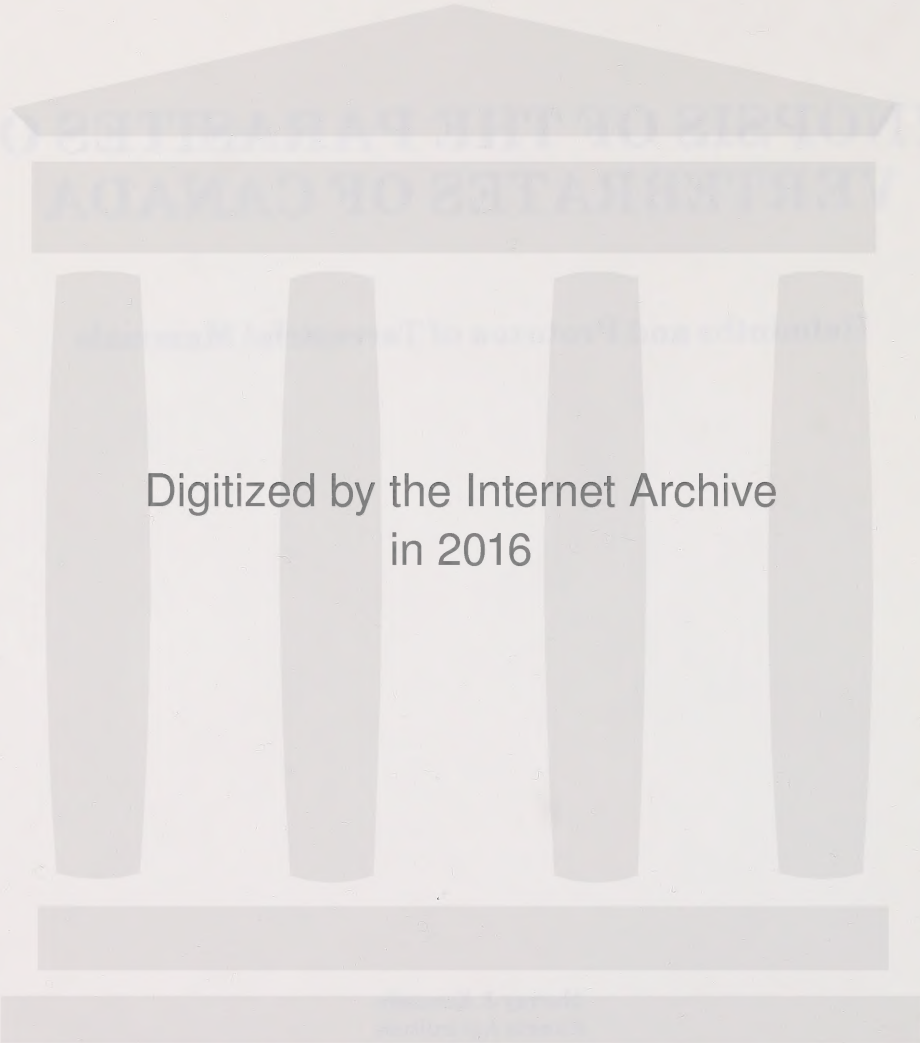
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# **SYNOPSIS OF THE PARASITES OF VERTEBRATES OF CANADA**

**Helminths and Protozoa of Terrestrial Mammals**

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## Abstract

This synopsis contains Parasite-Host and Host-Parasite lists of 355 species of parasites from 92 species (15 with 1 subspecies; 9 with 2 subspecies; 3 with 3 subspecies; and 1 with 4 subspecies) of terrestrial mammals from Canada. The 355 species of parasites are distributed among higher taxa as follows: Protozoa - 70; Trematoda - 62; Cestoidea - 65 (*Cysticercus* spp. are not included in the total); Nematoda - 158; and Acanthocephala - 2.



## Introduction

The compiled information covers the period from 1853 to June, 1985 and was extracted from numerous publications in the primary scientific literature. Journal series such as the *Canadian Journal of Zoology*, *Canadian Journal of Research*, *Journal of Wildlife Diseases*, *Journal of Protozoology*, *Proceeding of the Helminthological Society of Washington*, and the *Journal of Parasitology* were searched in their entirety. Abstracting series such as *Zoological Records*, *Helminthological Abstracts*, and *Protozoology Abstracts* were scanned for additional references. Theses and reports of federal and provincial governments and of other institutions were not searched extensively, hence, some existing records may have been omitted.

In providing references to the parasite-host-distribution data, I have attempted to include only reports based on original records, but screening all reports to ensure complete exclusion of repetitive records based on the same material was not possible. Publications that do not provide original parasite-host-distribution records but deal with some aspect of Canadian mammalian wildlife parasitology are compiled in a supplementary list of references.

The synopsis indicates that up to June, 1985, at least 355 species of parasites have been reported from 92 species (15 with 1 subspecies; 9 with 2 subspecies; 3 with 3 subspecies; and 1 with 4 subspecies) of terrestrial mammals. Parasites not identified to the species level are not included in the total number. The 355 species are divided among major taxa as follows: Protozoa - 70; Trematoda - 62; Cestoidea - 65 (*Cysticercus* spp. are not included in the total); Nematoda - 158; and Acanthocephala - 2.

The taxonomic arrangement adopted for each phylum or class of parasitic organism included in Canadian records, in most cases, is as follows:

Protozoa - Levine et al. (1980)

Trematoda - Brooks et al. (1985)

Cestoidea - Schmidt (1986)

Nematoda - Anderson et al. (1974-1983)

Acanthocephala - Amin (1982)

Host nomenclature and classification conforms to that of Hall (1981), except that *Odocoileus* rather than *Dama* is used for the generic name of the white-tailed, mule, and black-tailed deer. The entries in the synopsis are organized in accordance with the format adopted by Margolis and Arthur (1979) in their *Synopsis of the parasites of fishes of Canada*.

The Parasite-Host List is organized by higher taxa of parasites in the following order: Protozoa, Platyhelminthes (Trematoda, Cestoidea), Aschelminthes (Nematoda), and Acanthocephala. Species, genera, and family names are listed in alphabetical order within their respective next higher taxon, which in the case of a family is either a superfamily or an order, depending on the group in question and the usefulness of including the superfamily or order category.

For each parasite species listed, the following information is provided:

1) The current *scientific name*, including author(s) and date(s), followed by any recognized synonyms that may have been used in establishing the Canadian record(s). No attempt has been made to evaluate systematically the validity of published records, but attention is drawn to obvious errors. Adult and larval stages are recorded separately for the Cestoidea and Nematoda. The term metacestode is used either when the Canadian record used the term, or in cases where the type of cestode larva reported is uncertain.



- 2) The *site* of occurrence of the parasite in its host(s) (aberrant sites usually are not included). When the site was not given, the likely site was determined from other records.
- 3) The *hosts*. Only currently accepted scientific names are given in the Parasite-Host List. Numbers in parentheses after each host name correspond with the numbers assigned to the references establishing the particular parasite-host records.
- 4) *Distribution (Dist.)* Species distribution is indicated by Provincial or Territory boundaries listed in alphabetical order as follows: Alta (Alberta), BC (British Columbia), Man (Manitoba), NB (New Brunswick), Nfld (Newfoundland), NS (Nova Scotia), NWT (Northwest Territories), Ont (Ontario), PEI (Prince Edward Island), Que (Quebec), Sask (Saskatchewan), and YT (Yukon Territory).
- 5) Authors responsible for the *records* are listed in chronological order of the published records. To enable the reader to grasp at a glance the author(s) responsible for particular parasite-host-locality records, I numbered the references listed under "Records" and placed the corresponding number(s) after the host name, and each reference is followed by the locality or localities from which the parasite was (were) reported. An interrogation mark (?) after the locality indicates an uncertain locality record. When only one host is listed for a particular parasite, the references are not numbered, and when all records are from the same locality, the latter was not listed after the authors' names.
- 6) Under *remarks*, explanatory comments, as required, are offered on systematics, nomenclature, misidentifications, and synonyms of parasites; and on the hosts, sites within hosts, and validity of previous records.

In the Host-Parasite List, within each order or suborder, the families, genera, species, and subspecies are listed alphabetically. Host synonyms included are only those that were used in establishing the Canadian parasite records. After the name of each parasite species, its geographic distribution in the host in question is given in parentheses.

The REFERENCES are given in two groups, the first includes those directly referred to in the text and a second, SUPPLEMENTARY REFERENCES, contains a list of publications dealing with various aspects of parasites of Canadian mammals but which do not contain original parasite-host records.

To facilitate access to information in the parasite-host and host-parasite lists, the publication concludes with an INDEX to parasite and host scientific names.

# PARASITE-HOST LIST



# KINGDOM ANIMALIA

## SUBKINGDOM PROTOZOA

### PHYLUM

### SARCOMASTIGOPHORA

### SUBPHYLUM MASTIGOPHORA

### CLASS ZOOMASTIGOPHOREA

### ORDER DIPLOMONADIDA

#### FAMILY HEXAMITIDAE

*Giardia mesocricetus* Filice, 1952

Site: intestine

Hosts: *Mesocricetus auratus* (1,2)

Lab. rats (2)

Dist.: Ont

Records: 1. Grant and Woo 1978a, 2. 1978b

*Giardia microti* Kofoid and Christiansen, 1915

Site: intestine

Hosts: *Mesocricetus auratus* (3)

*Microtus pennsylvanicus* (2,3)

Field mice (1)

Lab. hamsters (3)

Dist.: NS, Ont

Records: 1. Simon 1921 (NS); 2. Grant and Woo 1978a (Ont), 3. 1978b exp. (Ont)

*Giardia muris* Grassi, 1881

Site: intestine

Hosts: *Mesocricetus auratus* (4)

*Rattus norvegicus* (2,3,4)

Lab. mice (1,3,4)

Lab. hamster (4)

Lab. rats (1)

Dist.: NS, Ont, Que

Records: 1. Simon 1921 exp. (NS); 2. Firlotte 1948 (Que); 3. Grant and Woo 1978a (Ont), 4. 1978b exp. (Ont)

*Giardia peromysci* Filice, 1952

Site: intestine

Host: *Peromyscus maniculatus*

Dist.: Ont

Records: Grant and Woo 1978a, 1978b exp.

*Giardia simoni* Lavier, 1924

Site: intestine

Hosts: *Rattus norvegicus* (1,2)

Lab. rats (1,2)

Dist.: Ont

Records: 1. Grant and Woo 1978a, 2. 1978b exp.

### ORDER KINETOPLASTIDA

*Trypanosoma citelli* Watson, 1912

Site: blood

Host: *Spermophilus richardsonii*

Dist.: Alta

Record: Watson and Hadwen 1912

*Trypanosoma evotomys* Hadwen, 1912

Site: blood

Hosts: *Clethrionomys gapperi*

*Myotis yumanensis saturatus*

Rabbits

Dist.: BC

Record: Watson and Hadwen 1912

*Trypanosoma hedrichi* Bower and Woo, 1981

Site: blood

Host: *Eptesicus fuscus*

Dist.: Ont

Records: Bower and Woo 1981; Paterson and Woo 1984 exp.

*Trypanosoma leporis-sylvaticus* Watson, 1912

Site: blood

Host: *Sylvilagus nuttallii*

Dist.: Alta

Record: Watson and Hadwen 1912

*Trypanosoma lewisi* (Kent, 1880) LaVeran and Mesnil, 1901

Site: blood

Host: *Rattus* sp.

Dist.: Ont

Record: Watson and Hadwen 1912

*Trypanosoma microti* Laveran and Pettit, 1909

Site: blood

Hosts: *Microtus pennsylvanicus*  
*Microtus* sp. lab (exp.)

Dist.: Ont

Record: Woo et al. 1980

*Trypanosoma myoti* Bower and Woo, 1981

Site: blood

Host: *Myotis lucifugus*

Dist.: Ont

Records: Bower and Woo 1981; Paterson and Woo 1984 exp.

*Trypanosoma otospermophili* (Wellman and Wherry, 1910) Laveran, 1911

Site: blood

Hosts: *Spermophilus columbianus* (1,2)

*S. franklinii* (1,2)

*S. parryii* (1,2)

*S. richardsonii* (1,2)

*S. tridecemlineatus* (1,2)

Dist.: Alta, YT

Records: 1. Hilton and Mahrt 1972a, 2. 1972b

*Trypanosoma peromysci* Watson, 1912

Site: blood

Hosts: *Peromyscus maniculatus*

*P. m. nebracensis*

Dist.: Alta

Record: Watson and Hadwen 1912

*Trypanosoma soricis* Hadwen, 1912

Site: blood

Hosts: *Blarina brevicauda* (2)

*Sorex vagrans* (1)

Dist.: BC, Ont

Records: 1. Watson and Hadwen 1912 (BC);

2. Woo et al. 1980 (Ont)

*Trypanosoma tamiasi* Riedel, 1975

Sites: blood and organs

Hosts: *Eutamias minimus* (1)

*Tamias striatus* (1,2)

Dist.: Ont

Records: 1. Riedel 1975; 2. Woo et al. 1980

*Trypanosoma* sp.

Site: blood

Host: Squirrel

Dist.: BC

Record: Watson and Hadwen 1912

## ORDER RETORTAMONADIDA

*Chilomastix bettencourti* da Fonseca, 1915

Site: intestine

Host: *Rattus norvegicus*

Dist.: Que

Record: Firlotte 1948

## ORDER TRICHOMONADIDA

*Tritrichomonas muris* (Grassi, 1879)

Syn.: *Trichomonas muris*

Site: intestine

Host: *Rattus norvegicus*

Dist.: Que

Record: Firlotte 1948

## SUBPHYLUM SARCODINA

### CLASS LOBOSEA

### ORDER AMOEBIDA

*Entamoeba muris* (Grassi, 1879)

Site: intestine

Host: *Rattus norvegicus*

Dist.: Que

Record: Firlotte 1948

Unidentified Amoebae

Site: intestine

Hosts: *Rangifer tarandus caribou*

Dist.: BC

Record: Low 1976

## PHYLUM APICOMPLEXA

### CLASS SPOROZOEIA

### ORDER EUCOCCIDIIDA

### SUBORDER EIMERIINA

*Besnoitia* spp.

Sites: skin, skeletal muscle, nasal mucosa, eye, pituitary, lymph nodes

Hosts: *Rangifer tarandus* (1)

*R. t. caribou* (3)

Barren-ground caribou (2)

Dist.: NWT, Sask

Records: 1. Gibbs 1960 (NWT?); 2. Choquette et al. 1967 (NWT); 3. Wobeser 1976 (Sask)

*Eimeria ahsata* Honess, 1942

Site: intestine

Host: *Ovis c. canadensis*

Dist.: Alta, BC

Record: Uhazy et al. 1971

- Eimeria albertensis* Hair and Mahrt, 1970  
 Site: intestine  
 Host: *Ursus americanus*  
 Dist.: Alta  
 Record: Hair and Mahrt 1970
- Eimeria arizonensis* Levine, Ivens, and Kruidenier, 1957  
 Site: intestine  
 Host: *Peromyscus maniculatus*  
 Dist.: BC  
 Record: Levine and Ivens 1963
- Eimeria athabascensis* Samoil and Samuel, 1977  
 Site: intestine  
 Host: *Lepus americanus*  
 Dist.: Alta  
 Record: Samoil and Samuel 1977b
- Eimeria banffensis* Lepp, Todd and Samuel, 1973  
 Site: intestine  
 Host: *Ochotona collaris*  
 Dist.: Alta, YT  
 Record: Hobbs and Samuel 1974
- Eimeria barretti* Lepp, Todd, and Samuel, 1972  
 Site: intestine  
 Hosts: *Ochotona collaris* (2)  
*O. princeps* (1,2)  
 Dist.: Alta, YT  
 Records: 1. Lepp et al. 1972 (Alta); 2. Hobbs and Samuel 1974 (Alta, YT)
- Eimeria bilamellata* Henry, 1932  
 Site: intestine  
 Hosts: *Spermophilus columbianus*  
*S. franklinii*  
*S. richardsonii*  
 Dist.: Alta  
 Record: Hilton and Mahrt 1971
- Eimeria borealis* Hair and Mahrt, 1970  
 Site: intestine  
 Host: *Ursus americanus*  
 Dist.: Alta  
 Record: Hair and Mahrt 1970
- Eimeria calentinei* Duszynski and Brunson, 1973  
 Site: intestine  
 Hosts: *Ochotona collaris* (2)  
*O. princeps* (1,2)  
 Dist.: Alta, YT  
 Records: 1. Lepp et al. 1973 (Alta); 2. Hobbs and Samuel 1974 (Alta, YT)
- Eimeria callospermophili* Henry, 1932  
 Site: intestine  
 Hosts: *Spermophilus columbianus*  
*S. franklinii*  
*S. richardsonii*  
 Dist.: Alta  
 Record: Hilton and Mahrt 1971
- Eimeria carinii* Pinto, 1926  
 Site: intestine  
 Hosts: *Rattus norvegicus*  
 Dist.: Que  
 Record: Firlotte 1948
- Eimeria circumborealis* Hobbs and Samuel, 1974  
 Site: intestine  
 Hosts: *Ochotona collaris*  
*O. princeps*  
 Dist.: Alta, YT  
 Record: Hobbs and Samuel 1974
- Eimeria confusa* Joseph, 1969  
 Site: intestine  
 Hosts: *Sciurus carolinensis*  
 Dist.: Ont  
 Record: Lee and Dorney 1971
- Eimeria crandallis* Honess, 1942  
 Site: intestine  
 Host: *Ovis c. canadensis*  
 Dist.: Alta, BC  
 Record: Uhazy et al. 1971
- Eimeria dorneyi* Levine and Ivens, 1965  
 Site: intestine  
 Host: *Glaucomys sabrinus*  
 Dist.: Ont  
 Record: Soon and Dorney 1969a
- Eimeria faurei* (Moussu and Marotel, 1902) Martin, 1909  
 Site: intestine  
 Hosts: *Ovibos moschatus* (2)  
*Ovis c. canadensis* (1)  
 Dist.: Alta, NWT, Que  
 Records: 1. Uhazy et al. 1971 (Alta); 2. Duszynski et al. 1977 (Alta, NWT, Que)
- Eimeria granulosa* Christensen, 1938  
 Site: intestine  
 Hosts: *Ovibos moschatus* (2)  
*Ovis c. canadensis* (1)  
 Dist.: Alta, NWT  
 Records: 1. Uhazy et al. 1971 (Alta); 2. Duszynski et al. 1977 (NWT)



- Eimeria holmesi* Samoil and Samuel, 1977  
 Site: intestine  
 Host: *Lepus americanus*  
 Dist.: Alta  
 Record: Samoil and Samuel, 1977b
- Eimeria intricata* Spiegl, 1925  
 Site: intestine  
 Host: *Ovis c. canadensis*  
 Dist.: Alta  
 Record: Uhazy et al. 1971
- Eimeria keithi* Samoil and Samuel, 1977  
 Site: intestine  
 Host: *Lepus americanus*  
 Dist.: Alta  
 Record: Samoil and Samuel 1977b
- Eimeria klondikensis* Hobbs and Samuel, 1974  
 Site: intestine  
 Hosts: *Ochotona collaris*  
*O. princeps*  
 Dist.: Alta, YT  
 Record: Hobbs and Samuel 1974
- Eimeria lateralis* Levine, Ivens, and Kruidenier, 1957  
 Site: intestine  
 Hosts: *Spermophilus columbianus*  
*S. richardsonii*  
 Dist.: Alta  
 Record: Hilton and Mahrt 1971
- Eimeria leporis* Nieschulz, 1923  
 Site: small intestine  
 Hosts: *Lepus americanus*  
 Dist.: Alta  
 Record: Samoil and Samuel 1977b
- Eimeria miyairii* Ohira, 1912  
 Site: intestine  
 Host: *Rattus norvegicus*  
 Dist.: Que  
 Record: Firlotte 1948
- Eimeria moschati* Duszynski, Samuel, and Gray, 1977  
 Site: intestine  
 Host: *Ovibos moschatus*  
 Dist.: Alta, NWT, Que  
 Record: 1. Duszynski et al. 1977
- Eimeria mustelae* Kingscote, 1934  
 Site: intestine  
 Hosts: *Mustela putoris* (exp)  
*M. vison*  
 Dist.: Ont  
 Record: Kingscote 1934
- Eimeria ninakohlyakimovae* Yakimoff and Rastegaieff, 1930  
 Site: intestine  
 Hosts: *Ovis c. canadensis*  
 Dist.: Alta, BC  
 Record: Uhazy et al. 1971
- Eimeria ontarioensis* Lee and Dorney, 1971  
 Site: intestine  
 Host: *Sciurus carolinensis*  
 Dist.: Ont  
 Record: Lee and Dorney 1971
- Eimeria oomingmakensis* Duszynski, Samuel, and Gray, 1977  
 Site: intestine  
 Host: *Ovibos moschatus*  
 Dist.: NWT  
 Record: Duszynski et al. 1977
- Eimeria ovibovis* Duszynski, Samuel, and Gray, 1977  
 Site: intestine  
 Host: *Ovibos moschatus*  
 Dist.: Alta, NWT, Que  
 Record: Duszynski et al. 1977
- Eimeria ovina* Levine and Ivens, 1970  
 Site: intestine  
 Hosts: *Ovibos moschatus* (2)  
*Ovis c. canadensis* (1)  
 Dist.: Alta, BC, NWT, Que  
 Records: 1. Uhazy et al. 1971 (Alta, BC); 2. Duszynski et al. 1977 (Alta, NWT, Que)
- Eimeria parva* Kotlan, Mocsy, and Vajda, 1929  
 Site: intestine  
 Host: *Ovis c. canadensis*  
 Dist.: Alta, BC  
 Record: Uhazy et al. 1971
- Eimeria princepsis* Duszynski and Brunson, 1973  
 Site: intestine  
 Hosts: *Ochotona collaris*  
*O. princeps*  
 Dist.: Alta, YT  
 Record: Hobbs and Samuel 1974

- Eimeria robertsoni* (Madsen, 1938) Carvalho, 1943  
 Syn: *Eimeria magna* var. *robertsoni*  
 Madsen, 1938  
*E. m. f. townsendi* Carvalho, 1943 *pro parte*  
*E. perforans* var. *groenlandica*  
 Madsen, 1938.  
 Site: duodenum  
 Host: *Lepus americanus*  
 Dist.: Alta  
 Records: Samoil and Samuel 1977a exp., 1977b
- Eimeria rochesterensis* Samoil and Samuel, 1977  
 Site: intestine  
 Host: *Lepus americanus*  
 Dist.: Alta  
 Record: Samoil and Samuel 1977b
- Eimeria rowani* Samoil and Samuel, 1977  
 Site: intestine  
 Host: *Lepus americanus*  
 Dist.: Alta  
 Record: Samoil and Samuel 1977b
- Eimeria ruficaudati* Gill and Ray, 1960  
 Site: intestine  
 Host: *Lepus americanus*  
 Dist.: Alta  
 Record: Samoil and Samuel 1977b
- Eimeria separata* Becker and Hall, 1931  
 Site: intestine  
 Host: *Rattus norvegicus*  
 Dist.: Que  
 Record: Firlotte 1948
- Eimeria siniffi* Levine and Ivens, 1963  
 Site: intestine  
 Host: *Peromyscus maniculatus*  
 Dist.: BC  
 Record: Levine and Ivens 1963
- Eimeria spermophili* Hilton and Mahrt, 1971  
 Site: intestine  
 Hosts: *Spermophilus franklinii*  
*S. richardsonii*  
 Dist.: Alta  
 Record: Hilton and Mahrt 1971
- Eimeria stiedae* Lindemann, 1865  
 Site: liver  
 Host: *Ondatra zibethicus*  
 Dist.: Ont  
 Record: Law and Kennedy 1932
- Eimeria tamiasciuri* Levine, Ivens, and Kruidenier, 1957  
 Site: intestine  
 Host: *Tamiasciurus hudsonicus*  
 Dist.: Alta  
 Record: Mahrt and Chai 1970, 1972.
- Eimeria toddi* Dorney, 1962  
 Site: intestine  
 Host: *Tamiasciurus hudsonicus*  
 Dist.: Alta  
 Record: Mahrt and Chai 1970, 1972
- Eimeria townsendi* (Carvalho, 1943) Pellerdy, 1956  
 Syn: *Eimeria magna* f. *townsendi* Carvalho, 1956 *pro parte*  
*Eimeria magna* Perard, 1925 *pro parte*  
 Site: intestine  
 Host: *Lepus americanus*  
 Dist.: Alta  
 Record: Samoil and Samuel 1977b
- Eimeria worleyi* Lepp, Todd, and Samuel, 1972  
 Site: intestine  
 Host: *Ochotona princeps*  
 Dist.: Alta  
 Record: Lepp et al. 1972
- Eimeria* spp.  
 Site: intestine  
 Hosts: *Lepus americanus* (1)  
*Ovibos moschatus* (4)  
*Ovis canadensis californiana* (2)  
*Sciurus carolinensis* (3)  
 Dist.: Alta, BC, Man, NWT, Ont, Que  
 Records: 1. Boughton 1932 (Man); 2. Blood 1963 (BC); 3. Lee and Dorner 1971 (Ont); 4. Samuel and Gray 1974 (Alta capt., NWT, Que capt.)  
 Remarks: Boughton (1932) believed his *Eimeria* spp. may be *Eimeria stiedae* and *E. perforans*.
- Frenkelia microti* (Findlay and Middleton, 1934) Biocca, 1968  
 Site: brain  
 Host: *Ondatra zibethicus*  
 Dist.: Ont  
 Record: Karstad 1963



*Isospora marquardtii* Duszynski and Brunson, 1972

Site: intestine

Hosts: *Ochotona collaris*

*O. princeps*

Dist.: Alta, YT

Record: Hobbs and Samuel 1974

*Isospora yukonensis* Hobbs and Samuel, 1974

Site: intestine

Host: *Ochotona collaris*

Dist.: YT

Record: Hobbs and Samuel 1974

*Sarcocystis campestris* Cawthorn, Wobeser and Gajadhar, 1983

Sites: intestine, vascular endothelium, skeletal muscle

Hosts: *Spermophilus richardsonii* (exp.)

*Taxidea taxus*

Dist.: Sask

Record: Cawthorn et al. 1983

*Sarcocystis* spp. cysts

Site: cardiac muscle, skeletal muscle

Hosts: *Alces alces* (2,3,4,10)

*A. alces andersoni* (7)

*Bison bison* (1,10)

*Cervus elaphus* (10)

*Odocoileus hemionus* (10)

*O. virginianus* (6,10)

*Oreamnos americanus* (10)

*Ovibos moschatus* (8)

*Ovis canadensis* (10)

*Rangifer tarandus* (5)

*R. t. caribou* (9)

Dist.: Alta, NS, NWT, Ont, Sask

Records: 1. Cameron 1923 (Alta); 2. DeVos and Allin 1949 (Ont); 3. Kelly et al. 1950 (NS); 4. Peterson 1955 (Ont); 5. Gibbs 1960 (NWT?); 6. Karstad and Trainer 1969 (Ont); 7. Barrett 1972 (Alta); 8. Samuel and Gray 1974 (NWT); 9. Wobeser 1976 (Sask); 10. Mahrt and Colwell 1980 (Alta)

*Toxoplasma gondii* Nicolle and Manceaux, 1908

Site: serum

Hosts: *Blarina brevicauda* (1)

*Canis latrans* (1,2)

*Martes martes* (2)

*M. pennanti* (2)

*Mephitis mephitis* (1,2,4)

*Mus musculus* (3)

*Mustela vison* (2)

*Peromyscus maniculatus* (3)

*Procyon lotor* (2)

*Rattus norvegicus* (3)

*Sylvilagus floridanus* (2)

*Ursus americanus* (1,2)

*Vulpes vulpes* (1,2)

Dist.: Alta, Ont, Sask

Records: 1. Quinn et al. 1976 (Ont); 2. Tizard et al. 1976 (Ont); 3. Tizard et al. 1978 (Ont); 4. Schowalter et al. 1980 (Alta, Sask)

Remarks: All reports used serological methods to detect *T. gondii*.

Unidentified Eucoccidiida

Eucoccidiida gen. spp.

Site: epididymis, intestine, liver

Hosts: *Alopex lagopus* (4)

*Cervus elaphus* (5)

*Ochotona princeps* (1)

*Ursus americanus* (3)

Rabbit (2)

Dist.: Alta, NWT, Ont, Que, Sask

Records: 1. Lubinsky 1957 (Alta); 2. Westermann and Engelbert 1969 (Ont); 3. Juniper 1978 (Que); 4. Eaton and Secord 1979 (NWT); 5. Hrudka et al. 1983 (Sask)

## SUBORDER ADELEINA

*Hepatozoon* spp.

Site: lungs

Hosts: *Mustela vison* (2)

*Tamiasciurus hudsonicus* (1)

Dist.: Alta, Ont

Records: 1. Mahrt and Chai 1972 (Alta); 2. Presidente and Karstad 1975 (Ont).

## PHYLUM MICROSPORA

### CLASS MICROSPOREA

#### ORDER MICROSPORIDA

*Encephalitozoon cuniculi* Levaditi, Nicolau and Schoen, 1923

Site: brain

Host: *Ondatra zibethicus*

Dist.: Sask

Record: Wobeser and Schuh 1979

## Unidentified Protozoa

Protozoa gen. spp.

Site: intestine

Host: *Ondatra zibethicus*

Dist.: Man

Record: McKenzie and Welch 1979

## SUBKINGDOM EUMETAZOA

## PHYLUM

### PLATYHELMINTHES

#### CLASS TREMATODA

##### SUBCLASS DIGenea

#### FAMILY BRACHYLAEMIDAE

*Brachylaima* sp.

Site: intestine

Host: *Microtus pennsylvanicus terraenovae*

Dist.: Nfld

Record: Rausch 1952b

*Postharmostomum helioides* (Leidy, 1847) Robinson, 1949

Site: caecum

Host: *Peromyscus maniculatus*

Dist.: Que

Record: Schad 1956

*Scaphiostomum pancreaticum* McIntosh, 1934

Site: pancreatic duct

Host: *Tamias striatus*

Dist.: Ont

Record: Jensen 1972 exp.

#### FAMILY DIPLOSTOMIDAE

*Alaria alata* (Goeze, 1782) Krause, 1914

Site: intestine

Host: *Vulpes vulpes*

Dist.: Man, PEI, Que

Record: Swales 1933b (PEI, Que); Baron 1970 (Man)

*Alaria americana* Hall and Wigdor, 1918

Syn.: *Alaria canis*

Site: intestine

Hosts: *Canis latrans* (4,5)

*C. lupus* (1,4,5,6,7)

*Lynx lynx* (4)

*L. rufus* (4)

*Martes pennanti* (4)

*Ursus americanus* (7)

*Vulpes vulpes* (1,2,3,4,8)

Dist.: Alta, NB, NS, Ont, PEI, Que, YT

Records: 1. Law and Kennedy 1932 (Ont); 2. Swales 1933b (PEI, Que); 3. Pearson 1954 exp. (Ont), 4. 1956 (Ont); 5. Holmes and Podesta 1968 (Alta); 6. Choquette, Gibson et al. 1973 (YT); 7. Addison et al. 1978 (Ont); 8. Smith 1978b (NB, NS)

#### FAMILY DICROCOELIIDAE

*Dicrocoelium dendriticum* (Rudolphi, 1819) Looss, 1899

Syn: *Dicrocoelium lanceolatum*

Sites: liver, gall bladder, pancreatic duct, duodenum

Hosts: *Lepus americanus struthopus* (2)

Mink (1)

Dist.: Nfld, PEI

Records: 1. Conklin and Baker 1930 (PEI); 2. Dodds and Mackiewicz 1961 (Nfld)

*Alaria americana* Hall and Wigdor, 1918 (mesocercaria)

Sites: many tissues

Hosts: *Lutra canadensis* (2 nat.)

*Mus musculus* (2)

*Mustela putorius* (2)

*Peromyscus maniculatus* (1,2)

Ferret (1)

Lab. mice (1)

Dist.: Ont

Records: 1. Pearson 1954 exp., 2. 1956 exp.

*Alaria arisaemoides* Augustine and Uribe, 1927

Site: intestine

Hosts: *Canis latrans* (3,4,6)

*C. lupus* (5,6)

*Vulpes vulpes* (1,2,6,7)

Dist.: Alta, Man, NB, NS, NWT, Ont, YT

Records: 1. Law and Kennedy 1932 (Ont); 2.

Pearson 1954 exp. (Ont); 3. 1956 (Ont); 4.

Holmes and Podesta 1968 (Alta); 5. Choquette,

Gibson et al. 1973 (NWT, YT); 6. Samuel,

Ramalingam et al. 1978 (Man); 7. Smith 1978b

(NB, NS)

*Alaria arisaemoides* Augustine and Uribe, 1927

(mesocercaria)

Sites: many tissues

Hosts: *Mus musculus* (2)

*Peromyscus maniculatus* (1,2)

Ferret (1)

Lab. mice (1)

Dist.: Ont

Records: 1. Pearson 1954 exp., 2. 1956

*Alaria canadensis* Webster and Wolfgang, 1956

Site: small intestine

Host: *Mephitis mephitis*

Dist.: Que

Record: Webster and Wolfgang 1956

*Alaria craterum* (Barker and Noll, 1915)

Site: duodenum

Hosts: *Mustela vison* (1)

*Ondatra zibethicus* (1)

Dist.: Ont

Record: Law and Kennedy 1932

*Alaria marcianae* (LaRue, 1917) Walton, 1950

Site: intestine

Hosts: *Canis latrans* (1)

*C. lupus* (1,3)

*Procyon lotor hirtus* (2)

*Vulpes vulpes* (2)

Dist.: Man, Que, Sask

Records: 1. Samuel, Ramalingam et al. 1978

(Man); 2. Hoberg and McGee 1982 (Sask); 3.

McNeill et al. 1984 (Que)

*Alaria mustelae* Bosma, 1931

Site: duodenum, intestine

Hosts: *Martes pennanti* (4)

*Mustela vison* (1)

*Ondatra zibethicus* (1,2,5)

*Vulpes vulpes* (1,3)

Dist.: Man, NB, NS, Ont

Records: 1. Law and Kennedy 1932 (Ont); 2.

Sweatman 1952b (Ont); 3. Smith 1978b (NB,

NS); 4. Dick and Leonard 1979 (Man); 5.

McKenzie and Welch 1979 (Man)

*Alaria mustelae* Bosma, 1931

(mesocercaria)

Site: lungs, spleen, musculature

Host: *Spermophilus franklinii*

Dist.: Sask

Record: McGee 1980 (Sask)

*Alaria taxideae* Swanson and Erickson, 1946

Site: intestine

Host: *Martes americana* (2)

*M. a. actuosa* (1)

Dist.: Man, NWT

Records: 1. Holmes 1963 (NWT); 2. Poole et al.

1983 (Man)

*Alaria* spp.

Site: intestine

Hosts: *Lynx lynx* (2)

*Gulo gulo* (3)

*Martes pennanti* (1)

Dist.: Alta, NWT, Ont

Records: 1. Anonymous 1930 (Ont); 2. Zyll

DeJong 1966 (Alta, NWT); 3. Addison and

Boles 1978 (NWT)

*Diplostomum mergi* Dubois, 1932

Site: intestine

Host: *Ondatra zibethicus obscurus*

Dist.: Nfld

Record: Rigby and Threlfall 1981

*Diplostomum spathaceum* (Rudolphi, 1819)

Olsson, 1878

Site: eye

Hosts: Lab. hamster

Lab. rabbit

Dist.: Ont

Record: Lester and Freeman 1976 exp.

*Fibricola cratera* (Barker and Noll, 1915) Dubois, 1932

Site: intestine

Host: *Mephitis mephitis*

Dist.: Que

Record: Webster and Wolfgang 1956

Remarks: Webster and Wolfgang (1956) did not specify the site in which their specimens were found, but presumably it was the intestine.

*Fibricola laruei* Miller, 1940

Site: small intestine

Host: *Procyon lotor*

Dist.: Que

Record: Miller 1940

*Pharyngostomoides adenocephala* Beckerdite, Miller and Harkema, 1971

Site: intestine

Hosts: *Procyon lotor* (2)

*P. l. hirtus* (1)

Dist.: Ont, Sask

Records: 1. Hoberg and McGee 1982 (Sask); 2. Butterworth and Holmes 1984 (Ont)

*Pharyngostomoides procyonis* Harkema, 1942

Site: intestine

Host: *Procyon lotor*

Dist.: Ont

Record: Butterworth and Holmes 1984

#### FAMILY ECHINOSTOMATIDAE

*Echinochasmus schwartzi* Price, 1931

Site: intestine

Host: *Ondatra zibethicus*

Dist.: Ont

Record: Law and Kennedy 1932

*Echinoparyphium contiguum* Barker and Bastron, 1915

Sites: duodenum, intestine

Hosts: *Ondatra zibethicus* (1,2,3)

*O. z. obscurus* (4)

Dist.: BC, Nfld, Ont

Records: 1. Law and Kennedy 1932 (Ont); 2. Knight 1951 (BC); 3. Sweatman 1952b (Ont); 4. Rigby and Threlfall 1981 (Nfld)

*Echinoparyphium recurvatum* (Linstow, 1873) Lühe, 1909

Site: intestine

Host: *Ondatra zibethicus obscurus*

Dist.: Nfld

Record: Rigby and Threlfall 1981

*Echinoparyphium* sp.

Site: intestine

Host: *Ondatra zibethicus*

Dist.: NB

Record: MacKinnon and Burt 1978

*Echinostoma callawayensis* Barker and Noll, 1915

Sites: duodenum, small intestine

Host: *Ondatra zibethicus*

Dist.: Ont

Records: Law and Kennedy 1932; Sweatman 1952

*Echinostoma revolutum* Froelich, 1802

Sites: duodenum, small intestine

Hosts: *Castor canadensis* (6)

*Ondatra zibethicus* (1,2,3,4,5,7,9)

*O. z. obscurus* (10)

*Vulpes vulpes* (8)

Dist.: BC, Man, NB, Nfld, NS, Ont, Que

Records: 1. Anonymous 1930 (Ont); 2. Law and Kennedy 1932 (Ont); 3. Knight 1951 (BC); 4. Sweatman 1952b (Ont); 5. Gupta 1962b (Que); 6. Smith and Archibald 1967 (NS); 7. MacKinnon and Burt 1978 (NB); 8. Smith 1978b (NB, NS); 9. McKenzie and Welch 1979 (Man); 10. Rigby and Threlfall 1981 (Nfld)

*Echinostoma* spp.

Site: intestine

Hosts: *Martes pennanti* (1)

*Ondatra zibethicus* (2)

Dist.: Alta, Ont

Records: 1. Anonymous 1930 (Ont); 2. Swales 1933b (Alta)

*Euparyphium inerme* Fuhrmann, 1904

Site: intestine

Host: *Mustela vison*

Dist.: Ont

Records: Law and Kennedy 1932; Price 1932

*Euparyphium melis* Schrank, 1788

Site: duodenum

Host: *Mustela vison*

Dist.: Ont

Record: Law and Kennedy 1932

#### FAMILY FASCIOLIDAE

*Fasciola hepatica* Linnaeus, 1758

Site: liver

Host: *Odocoileus hemionus columbianus*

Dist.: BC

Record: Hadwen 1916



*Fascioloides magna* (Bassi, 1875) Ward, 1917  
 Syn.: *Fasciola magna*  
 Site: liver  
 Hosts: *Alces alces* (10, 11  
 BC, 12, 15, 18, 19, 20, 21)  
*Bison bison* (2, 4, 5, 11)  
*Cavia porcellus* (4 exp.)  
*Cervus elaphus* (5, 8, 9, 10, 11, 13, 14, 21)  
*Cervus* spp. (15)  
*Odocoileus hemionus columbianus*  
 (1, 3, 4, 7, 11)  
*O. h. hemionus* (6, 11)  
*O. virginianus* (4, 5, 10)  
*Odocoileus* spp. (15)  
*Oryctolagus cuniculus* (4)  
*Rangifer tarandus caribou* (17)  
 Dist.: Alta, BC, Man, Ont, Que, Sask  
 Records: 1. Hadwen 1916 (BC); 2. Cameron  
 1923 (Alta); 3. Hadwen 1932 (BC); 4. Swales  
 1935 (Alta, BC), 5. 1936 (Que); 6. Cowan 1942  
 (BC), 7. 1946 (Province?); 8. Kingscote 1947  
 (Ont); 9. Anonymous 1950 (Ont); 10. Kingscote  
 1950 (Ont); 11. Cowan 1951 (Alta, BC); 12.  
 Peterson 1955 (Ont); 13. Kingscote 1957 (Ont);  
 14. Stelfox 1962 (Alta); 15. Fyvie 1966 (Ont);  
 16. Flook and Stenton 1969 (Alta, BC); 17.  
 Choquette et al. 1971 (Que); 18. Lankester  
 1972 (Man), 19. 1974 (Man); 20. Samuel et al.  
 1976 (Alta); 21. Wobeser et al. 1985 (Sask)

#### FAMILY HETEROPHYIDAE

*Apophallus venustus* (Ransom, 1920) Cameron,  
 1936  
 Site: intestine  
 Host: *Procyon lotor*  
 Dist.: Can, Ont  
 Record: Cameron 1936 (Ont), 1937a (Can)

*Apophallus* sp.  
 Site: intestine  
 Host: *Mephitis mephitis*  
 Dist.: Que  
 Record: Webster and Wolfgang 1956  
 Remarks: Webster and Wolfgang (1956)  
 believed their species may be *Apophallus*  
*venustus*.

*Cryptocotyle lingua* (Creplin, 1825) Lühe, 1899  
 Site: intestine  
 Host: *Vulpes vulpes*  
 Dist.: NB, NS  
 Record: Smith 1978b

*Euryhalmis pyriformis* Webster and Wolfgang,  
 1956  
 Site: intestine  
 Host: *Mephitis mephitis*  
 Dist.: Que  
 Record: Webster and Wolfgang 1956

*Phagicola longa* (Ransom, 1920) Price, 1935  
 Site: intestine  
 Host: *Vulpes vulpes*  
 Dist.: Ont, Que  
 Record: Swales 1933b

#### FAMILY LECITHODENDRIIDAE

*Acanthatrium eptesici* Alicata, 1932  
 Site: digestive tract  
 Host: *Eptesicus fuscus*  
 Dist.: BC  
 Record: Webster and Casey 1973

*Acanthatrium nycteridis* Faust, 1919  
 Site: digestive tract  
 Host: *Lasionycteris noctivagans*  
 Dist.: BC  
 Record: Webster and Casey 1973

*Lecithodendrium anticum* Stafford, 1905  
 Site: intestine  
 Host: *Myotis lucifugus*  
 Dist.: Not specified  
 Record: Stafford 1905

*Lecithodendrium posticum* Stafford, 1905  
 Site: intestine  
 Host: *Myotis lucifugus*  
 Dist.: Not specified  
 Record: Stafford 1905

*Limatulum gastroides* Macy, 1935  
 Site: digestive tract  
 Host: *Lasiurus cinereus*  
 Dist.: BC  
 Record: Webster and Casey 1973

*Prosthodendrium macnabi* Macy, 1936  
 Site: digestive tract  
 Hosts: *Eptesicus fuscus*  
*Lasionycteris noctivagans*  
 Dist.: BC  
 Record: Webster and Casey 1973

*Prosthodendrium naviculum* Macy, 1936  
 Site: digestive tract  
 Host: *Myotis volans longicrus*  
 Dist.: BC  
 Record: Webster and Casey 1973



*Prosthodendrium silvai* (Travassos, 1928)

Site: intestine

Host: *Lasiurus cinereus*

Dist.: BC

Record: Webster and Casey 1973

*Prosthodendrium swansonii* Macy, 1936

Site: digestive tract

Host: *Myotis lucifugus*

Dist.: BC

Record: Webster and Casey 1973

*Prosthodendrium* spp.

Site: digestive tract

Hosts: *Eptesicus fuscus*

*Lasionycteris noctivagans*

*Lasiurus cinereus*

*Myotis lucifugus*

Dist.: BC

Record: Webster and Casey 1973

#### FAMILY MICROPHALLIDAE

*Microphallus* sp.

Site: intestine

Host: *Procyon lotor hirtus*

Dist.: Sask

Record: Hoberg and McGee 1982

Remarks: Hoberg and McGee (1982) did not specify the site in which their specimens were found, but presumably it was the intestine.

#### FAMILY NOTOCOTYLIDAE

*Notocotylus filamentis* (Barker, 1915) Harwood, 1939

Syn.: *Catatropis filamentis* (Barker, 1915)

Sites: small intestine, large intestine

Host: *Ondatra zibethicus*

Dist.: Man, Ont

Records: Law and Kennedy 1932 (Ont);

Sweatman 1952b (Ont); McKenzie and Welch 1979 (Man)

*Notocotylus urbanensis* (Cort, 1914) Harrah, 1922

Site: caecum

Host: *Ondatra zibethicus*

Dist.: BC, NB, Ont

Records: Knight 1951 (BC); Beverley-Burton and Sweeny 1972 (Ont); MacKinnon and Burt 1978 (NB)

*Nudacotyle novicia* Barker, 1916

Site: intestine

Host: *Ondatra zibethicus*

Dist.: NB, Ont

Records: Law and Kennedy 1932 (Ont); MacKinnon and Burt 1978 (NB)

*Quinqueserialis quinqueserialis* (Barker and Laughlin, 1911) Harwood, 1939

Syn.: *Notocotylus quinqueserialis* Barker and Laughlin, 1911

Site: caecum

Hosts: *Microtus pennsylvanicus* (4)

*Ondatra zibethicus* (1,2,3,5,6,7)

*O. z. obscurus* (8)

*Zapus hudsonius* (4)

Dist.: BC, Man, NB, Nfld, Ont, Que

Records: 1. Law and Kennedy 1932 (Ont); 2. Sweatman 1952b (Ont); 3. Knight 1951 (BC); 4. Schad 1954 (Nfld, Que); 5. Beverley-Burton and Sweeny 1972 (Ont); 6. MacKinnon and Burt 1978 (NB); 7. McKenzie and Welch 1979 (Man); 8. Rigby and Threlfall 1981 (Nfld)

*Quinqueserialis zibethica* Gupta 1962

Site: duodenum

Host: *Ondatra zibethicus*

Dist.: Que

Record: Gupta 1962a

#### FAMILY OPISTHORCHIIDAE

*Metorchis conjunctus* (Cobbold, 1860) Looss, 1899

Sites: bile ducts, gall bladder, pancreas

Hosts: *Canis latrans* (2)

*Canis lupus* (2,6)

*Martes pennanti* (4)

*Ondatra zibethicus* (1)

*Sigmodon hispidus* (5)

*Vulpes vulpes* (3)

Dist.: Alta, Man, NB, NS, Ont, Que, Sask

Records: 1. Sweatman 1952b (Ont); 2. Holmes and Podesta 1968 (Alta); 3. Smith 1978b (NB, NS); 4. Dick and Leonard 1979 (Man); 5. Watson 1981 exp. (Que); 6. Wobeser et al. 1983 (Sask)

*Opisthorchis tonksae* Wallace and Penner, 1939

Sites: gall bladder and bile ducts

Host: *Ondatra zibethicus*

Dist.: NB

Record: MacKinnon and Burt 1978

Remarks: MacKinnon and Burt (1978) did not specify the sites in which their specimens were found, but presumably it was the gall bladder and bile ducts.

*Parametorchis canadensis* Price, 1929

Site: gallbladder  
Host: *Mustela vison*  
Dist.: Ont  
Records: Price 1929; Anonymous 1930, 1931;  
Law and Kennedy 1932

*Wardius zibethicus* Barker and East, 1915

Sites: caecum, colon  
Host: *Ondatra zibethicus*  
Dist.: Man, NB, Ont  
Records: Law and Kennedy 1932 (Ont);  
MacKinnon and Burt 1978 (NB); McKenzie  
and Welch 1979 (Man)

FAMILY PARAMPHISTOMIDAE

*Paramphistomum cervi* (Zeder, 1790) Fiscoeder, 1901

Site: rumen  
Host: *Alces alces*  
Dist.: Nfld, Ont, Que, Sask  
Records: Peterson 1955 (Ont, Que); Threlfall  
1967 (Nfld); Lankester et al. 1979 (Ont);  
Kennedy et al. 1985 (Ont, Sask)  
Remarks: Kennedy et al. (1985) re-examined  
Lankester's et al. (1979) material and  
concluded there were two species present:  
*Paramphistomum cervi* and *Paramphistomum*  
*liorchis*.

*Zygocotyle lunata* (Diesing, 1835) Stunkard, 1917

Site: caecum  
Host: *Alces alces*  
Dist.: Alta  
Records: Samuel et al. 1976; Stock and Barrett  
1983

*Paramphistomum liorchis* Fiscoeder, 1901

Site: rumen  
Host: *Alces alces*  
Dist.: Ont  
Records: Kennedy et al. 1985

*Plagiorchis muris* Tanabe, 1922

Site: intestine  
Host: *Microtus pennsylvanicus*  
Dist.: Nfld, Que  
Record: Schad 1954

*Paramphistomum* spp.

Site: rumen  
Host: *Alces alces*  
Dist.: Alta  
Record: Samuel et al. 1976

*Plagiorchis noblei* Fedorova, 1969

Site: intestine  
Host: *Ondatra zibethicus*  
Dist.: Man  
Record: McKenzie and Welch 1979

Unidentified Paramphistomidae

Paramphistomidae gen. sp.

Site: intestine  
Host: *Ondatra zibethicus obscurus*  
Dist.: Nfld  
Record: Rigby and Threlfall 1981

*Plagiorchis proximus* Barker, 1915

Sites: small intestine, duodenum  
Hosts: *Glaucomyx sabrinus* (8)  
*Mustela vison* (1,2)  
*Ondatra zibethicus* (2,4,5,7)  
*O. z. obscurus* (9)  
*Spermophilus franklinii* (8)  
*S. richardsonii* (3,8)  
*Tamiasciurus hudsonicus* (8)  
*Zapus hudsonius* (6)

*Stichorchis subtriquetrus* (Rudolphi, 1814)

Fiscoeder, 1901  
Sites: caecum, small intestine  
Hosts: *Castor canadensis* (1,2,4,5,6)  
*C. c. leucodontus* (3)  
Dist.: Alta, BC, Nfld, NS, Ont, Que  
Records: 1. Duff 1914 (Ont, Que); 2. Law and  
Kennedy 1932 (Ont); 3. Cowan 1942 (BC); 4.  
Choquette and Pimlott 1956 (Nfld); 5. Smith  
and Archibald 1967 (NS); 6. Bush and Samuel  
1981 (Alta)

Dist.: BC, Man, NB, Nfld, Ont, Que, Sask  
Records: 1. Anonymous 1930 (Ont); 2. Law and  
Kennedy 1932 (Ont); 3. Rausch and Tiner 1948  
(Man); 4. Knight 1951 (BC); 5. Sweatman  
1952b (Ont); 6. Schad 1954 (Nfld, Que); 7.  
MacKinnon and Burt 1978 (NB); 8. McGee  
1980 (Sask); 9. Rigby and Threlfall 1981 (Nfld)

*Plagiorchis vespertilionis* (Müller, 1784) Braun, 1900

Site: intestine

Hosts: *Eptesicus fuscus* (2)  
*Lasionycteris noctivagans* (2)  
*Lasiurus cinereus* (2)  
*Myotis californicus* (2)  
*M. lucifugus* (1,2)  
*M. volans longicrus* (2)

Dist.: BC

Records: 1. Stafford 1905 (not specified); 2. Webster and Casey 1973 (BC)

*Plagiorchis* spp.

Site: intestine

Hosts: *Clethrionomys gapperi* (1)  
*Eptesicus fuscus* (2)  
*Lasionycteris noctivagans* (2)

Dist.: BC, Nfld, Que

Records: 1. Schad 1954 (Nfld, Que); 2. Webster and Casey 1973 (BC)

#### FAMILY PSILOSTOMIDAE

*Psilostomum ondatrae* Price, 1931

Site: liver

Host: *Ondatra zibethicus*

Dist.: Ont

Record: Law and Kennedy 1932

*Stephanoproraoides lawi* Price, 1934

Site: small intestine

Host: *Castor canadensis*

Dist.: NS, Ont

Records: Price 1934 (Ont); Smith and Archibald 1967 (NS)

#### FAMILY SCHISTOSOMATIDAE

*Schistosomatium douthitti* (Cort, 1914) Price, 1929

Site: hepatic portal vein

Hosts: *Erethizon dorsatum* (2)  
*Microtus pennsylvanicus* (1)  
*Ondatra zibethicus* (3)

Dist.: Man, NB, Ont

Records: 1. Farley 1962 (Man); 2. Choquette, Broughton et al. 1973 (Ont); 3. MacKinnon and Burt 1978 (NB)

*Schistosomatium douthitti* ova

Sites: liver, blood vessels

Hosts: *Erethizon dorsatum* (1)  
*Ondatra zibethicus* (2)

Dist.: Man, Ont

Records: 1. Choquette, Broughton et al. 1973 (Ont); 2. McKenzie and Welch 1979 (Man)

*Schistosomatium douthitti* (Cort, 1914) Price, 1929 (immature)

Site: spleen

Host: *Ondatra zibethicus*

Dist.: Man

Record: McKenzie and Welch 1979

#### FAMILY TROGLOTREMATIDAE

*Nanophyetus salmincola* (Chapin, 1926) Chapin, 1927

Site: small intestine

Host: *Mustela vison*

Dist.: Ont

Record: Anonymous 1930

*Paragonimus kellicotti* Ward, 1908

Sites: bronchi, bronchioles

Hosts: *Canis latrans* (2,3)  
*Mephitis mephitis* (2,3)  
*Mustela vison* (2,3)  
*Vulpes vulpes* (2,3)  
Mink (1)

Dist.: Ont

Record: 1. Fyvie 1966; 2. Presidente and Ramsden 1975b; 3. Ramsden and Presidente 1975

*Paragonimus* spp.

Site: intestine

Hosts: *Mustela vison* (1)  
Mink (2)

Dist.: Can, Ont

Records: 1. Swales 1933b (Ont); 2. Cameron 1937b (Can)

Digenea gen. spp. metacercariae

Site: liver

Host: *Peromyscus maniculatus*

Dist.: Que

Record: Schad 1956

### CLASS CESTOIDEA

#### SUBCLASS EUCESTODA

#### ORDER CYCLOPHYLLIDEA

#### FAMILY ANOPLOCEPHALIDAE

*Andrya arctica* Rausch, 1952

Site: intestine

Hosts: *Dicrostonyx groenlandicus richardsoni* (1)  
*D. torquatus* (3)  
*Synaptomys borealis* (2)

Dist.: Alta, Man, NWT

Records: 1. Rausch 1952a (Man); 2. Lubinsky 1957 (Alta); 3. Webster 1974 (NWT)



- Andrya bairdi* Schad, 1954  
 Site: small intestine  
 Host: *Microtus chrotorrhinus*  
 Dist.: Nfld, Que  
 Record: Schad 1954
- Andrya communis* Douthitt, 1915  
 Site: intestine  
 Hosts: *Clethrionomys gapperi*  
*Microtus pennsylvanicus*  
*Phenacomys intermedius*  
 Dist.: Alta  
 Record: Lubinsky 1957
- Andrya macrocephala* Douthitt, 1915  
 Site: small intestine  
 Hosts: *Clethrionomys gapperi* (1,2)  
*Microtus chrotorrhinus* (1,2)  
*M. ochrogaster* (2)  
*M. pennsylvanicus* (1,2)  
*Ondatra zibethicus* (3)  
 Dist.: Alta, NB, Nfld, Que  
 Records: 1. Schad 1954 (Nfld, Que); 2. Lubinsky 1957 (Alta); 3. MacKinnon and Burt 1978 (NB)
- Andrya neotomae* Voge, 1946  
 Site: intestine  
 Host: *Neotoma cinerea*  
 Dist.: Alta  
 Record: Lubinsky 1957
- Andrya primordialis* Douthitt, 1915  
 Site: small intestine  
 Host: *Tamiasciurus hudsonicus*  
 Dist.: Alta, Sask  
 Records: Mahrt and Chai 1972 (Alta); McGee 1980 (Sask)
- Andrya sciuri* Rausch, 1947  
 Site: intestine  
 Host: *Glaucomys sabrinus*  
 Dist.: Sask  
 Record: McGee 1980
- Andrya* sp.  
 Site: intestine  
 Host: *Clethrionomys gapperi*  
 Dist.: Lab, Que  
 Record: Schad 1954
- Atriotaenia procyonis* (Chandler, 1942) Spassky, 1951  
 Site: intestine  
 Hosts: *Procyon lotor hirtus*  
 Dist.: Sask  
 Record: Hoberg and McGee 1982  
 Remarks: Hoberg and McGee (1982) did not specify the site in which their specimens were found, but presumably it was the intestine.
- Avitellina arctica* Kolmakov, 1938  
 Site: intestine  
 Host: *Rangifer tarandus*  
 Dist.: NWT  
 Record: Gibbs 1959
- Avitellina* spp.  
 Site: small intestine  
 Hosts: *Oreamnos americanus* (2)  
*Rangifer tarandus* (1)  
 Dist.: Alta, NWT  
 Records: 1. Gibbs 1960 (NWT?); 2. Samuel, Hall et al. 1978 (Alta)
- Cittotaenia pectinata* Goeze, 1782  
 Site: intestine  
 Host: *Lepus americanus struthopus*  
 Dist.: Nfld  
 Record: Dodds and Mackiewicz 1961
- Cittotaenia pectinata americana* Stiles and Hassel, 1896  
 Site: small intestine  
 Host: *Lepus americanus*  
 Dist.: Man  
 Record: Boughton 1932
- Diandrya vancouverensis* Mace and Shepard, 1981  
 Site: small intestine  
 Host: *Marmota vancouverensis*  
 Dist.: BC  
 Record: Mace and Shepard 1981
- Moniezia benedini* (Moniez, 1879) Blanchard, 1891  
 Site: intestine  
 Hosts: *Alces alces* (3)  
*Cervus elaphus* (4)  
*Odocoileus hemionus columbianus* (2,3)  
*O. h. hemionus* (3)  
*Oreamnos americanus* (1,3,5)  
*Ovis canadensis* (1)  
*O. c. canadensis* (3)  
 Dist.: Alta, BC  
 Records: 1. Cowan 1944 (Alta), 2. 1946 (BC), 3. 1951 (Alta, BC); 4. Flook and Stenton 1969 (Alta); 5. Samuel, Hall et al. 1978 (Alta)

*Moniezia expansa* (Rudolphi, 1810) Blanchard, 1891

Site: intestine

Hosts: *Ovibos moschatus* (2,3,5)

*Ovis canadensis canadensis* (4)

*Rangifer tarandus* (1)

Dist.: Alta, NWT, Sask

Records: 1. Erickson and Highby 1942 (Sask); 2. Durrell and Bolton 1957 (NWT); 3. Gibbs and Tener 1958 (NWT); 4. Samuel, Hall et al. 1978 (Alta); 5. Webster and Rowell 1980 (NWT)

*Moniezia* spp.

Site: small intestine

Hosts: *Alces alces* (6)

*A. a. andersoni* (3)

*Bison bison* (1)

*Ovibos moschatus* (4)

*Rangifer tarandus* (2)

*R. t. caribou* (5)

Dist.: Alta, BC, NWT

Records: 1. Cameron 1923 (Alta); 2. Gibbs 1960 (NWT?); 3. Barrett 1972 (Alta); 4. Samuel and Gray 1974 (NWT, Alta capt.); 5. Low 1976 (BC); 6. Samuel et al. 1976 (Alta)  
Remarks: This parasite was identified by Low (1976) as probably being *Moniezia expansa*. This parasite was reported by Cameron (1923) as "...species not identified, but probably *planissima*."

*Oochoristica oklahomensis* Peery, 1939

Site: intestine

Host: *Mephitis mephitis*

Dist.: Que

Record: Choquette 1951

*Paranoplocephala infrequens* (Douthitt, 1915)

Baer, 1927

Sites: caecum, small intestine

Hosts: *Microtus pennsylvanicus* (1,2)

*Synaptomys borealis* (1)

Dist.: Alta, Lab, Que

Records: 1. Schad 1954 (Lab, Que); 2. Lubinsky 1957 (Alta)

*Paranoplocephala lemmi* Rausch, 1952

Site: caecum

Host: *Lemmus t. trimucronatus*

Dist.: NWT

Record: Rausch 1952b

*Paranoplocephala variabilis* (Douthitt, 1915) Hansen, 1947

Sites: colon, small intestine

Hosts: *Dicrostonyx hudsonius* (1)

*Microtus pennsylvanicus* (1,2)

*Phenacomys intermedius* (2)

*Thomomys talpoides* (2)

Dist.: Alta, Nfld, Que

Records: 1. Schad 1954 (Nfld, Que); 2. Lubinsky 1957 (Alta)

*Schizorchis caballeroi* Rausch, 1960

Site: small intestine

Hosts: *Ochotona collaris*

*O. princeps*

Dist.: Alta, YT

Record: Hobbs 1980

*Schizorchis ochotonae* Hansen, 1948

Site: small intestine

Host: *Ochotona princeps*

Dist.: Alta

Record: Lubinsky 1957

*Thysanosoma actinioides* Diesing, 1834

Sites: duodenum, jejunum

Hosts: *Alces alces* (7,9)

*A. a. andersoni* (6)

*Cervus elaphus* (1,3,5,9)

*Odocoileus hemionus columbianus* (2,3)

*O. h. hemionus* (3 BC)

*Oreamnos americanus* (1,3,4,8)

*Ovis c. canadensis* (3)

Dist.: Alta, BC

Records: 1. Cowan 1944 (Alta), 2. 1946 (BC), 3. 1951 (Alta, BC); 4. Kerr and Holmes 1966 (Alta); 5. Flook and Stenton 1969 (Alta, BC); 6. Barrett 1972 (Alta); 7. Samuel et al. 1976 (Alta); 8. Samuel, Hall et al. 1978 (Alta, BC); 9. Stock and Barrett 1983 (Alta)

*Wyominia tetoni* Scott, 1941

Sites: bile duct, hepatic ducts

Host: *Ovis dalli*

Dist.: YT

Record: Gibbs and Fuller 1959

Anoplocephalidae gen. sp.

Site: intestine

Hosts: *Ondatra zibethicus obscurus* (2)

*Oreamnos americanus* (1)

Dist.: Alta, BC, Nfld

Records: 1. Samuel, Hall et al. 1978 (Alta, BC); 2. Rigby and Threlfall 1981 (Nfld)



FAMILY CATENOTAENIIDAE

*Catenotaenia dendritica* (Goeze, 1782) Janicki, 1904

Site: small intestine  
Host: *Clethrionomys gapperi*  
Dist.: Alta, Nfld, Que  
Records: Schad 1954 (Nfld, Que); Lubinsky 1957 (Alta)

FAMILY DILEPIDIDAE

*Choanotaenia nebraskensis* Hansen, 1950

Site: small intestine  
Host: *Mus musculus*  
Dist.: Alta  
Record: Lubinsky 1957

*Choanotaenia peromysci* (Erickson, 1938)

Site: small intestine  
Host: *Peromyscus maniculatus*  
Dist.: Alta  
Record: Lubinsky 1957

*Choanotaenia spermophili* (McLeod, 1933)

Syn: *Prochoanotaenia spermophili* McLeod, 1933  
Site: intestine  
Hosts: *Spermophilus franklinii* (1,2)  
*S. richardsonii* (1,2)  
Dist.: Man, Sask  
Records: 1. McLeod 1933 (Man); 2. McGee 1980 (Sask)

*Choanotaenia* sp.

Site: small intestine  
Host: *Zapus hudsonius*  
Dist.: Alta  
Record: Lubinsky 1957

*Dipylidium caninum* (Linnaeus, 1758) Leuckart, 1863

Site: intestine  
Hosts: *Vulpes vulpes*  
Dist.: Que  
Record: Swales 1933b

*Paruterina candelabraria* (Goeze, 1782) (plerocercoids)

Site: liver  
Hosts: *Microtus pennsylvanicus* (1)  
*Peromyscus maniculatus* (1)  
*Tamiasciurus hudsonicus* (2,3)  
Dist.: Alta, Man, Sask  
Records: 1. Baron 1971 (Man); 2. Mahrt and Chai 1972 (Alta); 3. McGee 1980 (Sask)

*Paruterina rauschi* Freeman, 1957 (metacestode)

Site: liver  
Hosts: *Clethrionomys gapperi*  
*Peromyscus maniculatus*  
Dist.: Ont  
Record: Freeman and Wright 1960  
Remarks: Freeman and Wright (1960) did not specify the site in which their metacestodes were found, but presumably it was the liver.

FAMILY HYMENOLEPIDIDAE

*Hymenolepis bennetti* Freeman, 1960

Site: small intestine  
Hosts: *Napaeozapus i. insignis*  
*Peromyscus maniculatus gracilis*  
Dist.: Ont  
Record: Freeman 1960

*Hymenolepis citelli* (McLeod, 1933)

Syn.: *Weinlandia citelli* (McLeod, 1933)  
Site: intestine, stomach  
Hosts: *Spermophilus franklinii*  
*S. richardsonii*  
*S. tridecemlineatus*  
Dist.: Man, Sask  
Records: McLeod 1933 (Man); McGee 1980 (Sask)

*Hymenolepis diminuta* Rudolphi, 1819

Site: small intestine  
Hosts: *Rattus norvegicus* (1)  
*Spermophilus richardsonii* (2)  
Dist.: Alta, Que  
Records: 1. Firlotte 1948 (Que); 2. Lubinsky 1957 (Alta)

*Hymenolepis evaginata* (Barker and Andrews, 1915)

Site: intestine  
Hosts: *Ondatra zibethicus* (1,2,3,4,5,6)  
*O. z. obscurus* (7)  
Dist.: Alta, BC, NB, Nfld, Ont  
Records: 1. Anonymous 1930 (Ont); 2. Law and Kennedy 1932 (Ont); 3. Knight 1951 (BC); 4. Sweatman 1952b (Ont); 5. Lubinsky 1957 (Alta); 6. MacKinnon and Burt 1978 (NB); 7. Rigby and Threlfall 1981 (Nfld)

*Hymenolepis gertschi* Macy, 1947

Site: digestive tract  
Host: *Eptesicus fuscus*  
Dist.: BC  
Record: Webster and Casey 1973

*Hymenolepis horrida* von Linstow, 1901  
Site: small intestine  
Hosts: *Clethrionomys gapperi* (1,2,3)  
*Microtus chrotorrhinus* (1)  
*M. pennsylvanicus* (3)  
*Tamiasciurus hudsonicus* (4)  
Dist.: Alta, Nfld, Que  
Records: 1. Schiller 1952 (Que); 2. Schad 1954 (Nfld, Que); 3. Lubinsky 1957 (Alta); 4. Mahrt and Chai 1972 (Alta)

*Hymenolepis johnsoni* Schiller, 1952  
Site: intestine  
Host: *Microtus pennsylvanicus drummondi*  
Dist.: NWT  
Record: Rausch 1952  
Remarks: Rausch (1952) did not specify the site in which this specimen was found, but presumably it was the intestine.

*Hymenolepis murinae* (Meggitt, 1927)  
Site: intestine  
Host: *Rattus norvegicus*  
Dist.: Que  
Record: Firlotte 1948

*Hymenolepis octocoronata* (von Linstow)  
Fuhrmann, 1924  
Site: small intestine  
Host: *Ondatra zibethicus*  
Dist.: BC  
Record: Knight 1951

*Hymenolepis* spp.  
Site: small intestine  
Hosts: *Eutamias minimus* (4)  
*Myotis lucifugus* (2)  
*Ondatra zibethicus* (1,3)  
Dist.: Alta, BC, Man, Sask  
Records: 1. Swales 1933b (Alta); 2. Webster and Casey 1973 (BC); 3. McKenzie and Welch 1979 (Man); 4. McGee 1980 (Sask)

#### Unidentified Hymenolepididae

Hymenolepididae gen. sp.  
Site: not specified  
Hosts: *Rattus norvegicus*  
Dist.: Nfld  
Record: Smith and Threlfall 1973

#### FAMILY MESOCESTOIDIDAE

*Mesocestoides kirbyi* Chandler, 1944  
Site: intestine  
Hosts: *Canis latrans* (1)  
*C. lupus* (2)  
Dist.: Alta, YT  
Records: 1. Holmes and Podesta 1968 (Alta); 2. Choquette, Gibson et al. 1973 (YT)

*Mesocestoides latus* Mueller, 1928  
Site: intestine  
Host: *Mephitis mephitis*  
Dist.: Que  
Records: Choquette 1951; Webster and Wolfgang 1956

*Mesocestoides* spp.  
Site: intestine  
Hosts: *Canis latrans* (3)  
*Martes americana* (2)  
*Mustela vison* (2)  
*Vulpes vulpes* (4)  
*Zapus hudsonius* (1)  
Dist.: Nfld, Ont, Que  
Records: 1. Schad 1954 (Nfld, Que); 2. Freeman 1956 (Ont); 3. Freeman et al. 1961 (Ont); 4. Freeman 1962 (Ont)

#### FAMILY TAENIIDAE

*Cladotaenia circi* Yamaguti, 1935  
(cysticercoid)  
Site: liver  
Host: *Spermophilus tridecemlineatus*  
Dist.: Sask  
Record: McGee 1980

*Cladotaenia globifera* (Batsch, 1786)  
(metacestode)  
Site: liver  
Hosts: *Clethrionomys gapperi* (1)  
*Glaucomyss sabrinus* (3)  
*Microtus pennsylvanicus* (2)  
*Peromyscus maniculatus* (1)  
Dist.: Man, Ont, Sask  
Records: 1. Freeman and Wright 1960 (Ont); 2. Baron 1971 (Man); 3. McGee 1980 (Sask)

*Cladotaenia mirsoevi* Skrjabin and Popoff, 1924  
Site: ileum  
Hosts: *Clethrionomys gapperi*  
*Clethrionomys* sp.  
Dist.: Alta  
Record: Lubinsky 1957

- Cladotaenia* spp. *cysticercus*  
 Site: liver  
 Hosts: *Ondatra zibethicus* (1)  
*Tamiasciurus hudsonicus* (2)  
 Dist.: Alta, BC  
 Records: 1. Knight 1951 (BC); 2. Mahrt and Chai 1972 (Alta)
- Cysticercus fasciolaris* Batsch, 1786  
 Site: liver cysts  
 Hosts: *Ondatra zibethicus* (2,3)  
*Rattus norvegicus* (1)  
 Dist.: BC, Ont, Que  
 Records: 1. Firlotte 1948 (Que); 2. Knight 1951 (BC); 3. Sweatman 1952b (Ont)
- Cysticercus ovis* Cobbold, 1869  
 Site: muscle cysts  
 Host: *Odocoileus hemionus columbianus*  
 Dist.: BC  
 Record: Cowan 1946
- Cysticercus pisiformis* Block, 1780  
 Site: intestine cysts  
 Hosts: Cottontail rabbit (2)  
 Lab. rabbit (3)  
 Rabbit (1)  
 Varying hare (2)  
 Dist.: Ont  
 Records: 1. Law 1933b; 2. Fyvie 1966; 3. Barker 1970 exp.
- Cysticercus talpae* Rudolphi, 1819  
 Site: liver cysts  
 Hosts: *Ondatra zibethicus*  
 Dist.: Ont  
 Record: Skinker 1935
- Cysticercus tarandi* Moniez, 1789  
 Site: muscle cysts  
 Hosts: *Rangifer tarandus* (1)  
 Moose (2)  
 Dist.: NWT, Ont  
 Records: 1. Gibbs 1960 (NWT?); 2. Fyvie 1966 (Ont)
- Cysticercus tenuicollis* Pallas, 1766  
 Site: liver cysts  
 Hosts: *Alces alces* (1,2,6,10)  
*Cervus elaphus* (5,6,10)  
*Odocoileus hemionus* (5,9)  
*O. h. columbianus* (5,6)  
*O. h. hemionus* (6)  
*O. virginianus ochrourus* (6)  
*Oreamnos americanus* (4,6)  
*Ovibos moschatus* (7)  
*Ovis canadensis* (4)  
*O. c. canadensis* (6)  
*Rangifer tarandus* (6,9)  
*R. t. terraenovae* (1)  
 Deer (10)  
 Dist.: Alta, BC, Nfld, NWT, Ont  
 Records: 1. Dikmans 1932 (Nfld); 2. Hadwen 1932 (Alta); 3. Gregson 1937 (BC); 4. Cowan 1944 (Alta), 5. 1946 (BC), 6. 1951 (Alta, BC); 7. Gibbs and Tener 1958 (NWT); 8. Ritcey and Edwards 1958 (BC); 9. Gibbs 1960 (NWT?); 10. Fyvie 1966 (Ont); 11. Threlfall 1969 (Nfld)
- Cysticercus* spp. cyst  
 Sites: cysts in muscle and body cavity  
 Hosts: *Alces alces* (2,3,4,5)  
*Odocoileus hemionus columbianus* (1)  
*Rangifer tarandus* (1)  
 Dist.: Alta, BC, NS, Ont, Sask, YT  
 Records: 1. Cowan 1951 (Alta, BC); 2. Peterson 1955 (Ont); 3. Benson 1958 (NS); 4. Ritcey and Edwards 1958 (BC); 5. Sweatman and Henshall 1962 (Ont, Sask, YT)
- Echinococcus granulosus* (Batsch, 1786) Rudolphi, 1801  
 Site: intestine  
 Hosts: *Canis latrans* (1,3,4,5,6,8)  
*C. lupus* (1,2,3,4,5,6,7,8,9)  
*Martes pennanti* (3)  
 Dist.: Alta, Man, NWT, Ont, Que, YT  
 Records: 1. Cowan 1948 (Alta); 2. DeVos and Allin 1949 (Ont); 3. Sweatman 1952a (Ont); 4. Freeman et al. 1961 (Ont); 5. Holmes 1961 (Alta); 6. Holmes and Podesta 1968 (Alta); 7. Choquette, Gibson et al. 1973 (NWT, YT); 8. Samuel, Ramalingam and Carbyn 1978 (Man); 9. McNeill et al. 1984 (Que)



*Echinococcus granulosus* (Batsch, 1786) Rudolphi, 1801

(hydatid cyst)

Sites: cysts in lungs and liver

Hosts: *Alces alces* (1,5,7,8,10,11,13,15,16,19, 20,21,22,24,25,26,27,28,29)

*A. a. andersoni* (23)

*Bison bison* (20)

*Cervus elaphus* (2,4,6,7,19,20,23)

*Odocoileus hemionus columbianus* (3,7)

*O. h. hemionus* (4,7)

*O. virginianus* (8,10,18,20)

*Ovibos moschatus* (14)

*Rangifer tarandus* (10,12, 15 NWT,17,20)

*R. t. groenlandicus* (9)

*Rangifer* sp. (20)

Deer (21)

Dist.: Alta, BC, Man, NS, NWT, Ont, Que, Sask, YT

Records: 1. Hadwen 1932 (Man); 2. Cowan 1944 (Alta), 3. 1946 (BC), 4. 1948 (Alta); 5. DeVos and Allin 1949 (Ont); 6. Green 1949 (Alta); 7. Cowan 1951 (Alta, BC); 8. Sweatman 1952a (Ont); 9. Banfield 1954 (Man); 10. Harper et al. 1955 (Sask, NWT); 11. Peterson 1955 (Ont); 12. Choquette et al. 1957 (NWT); 13. Benson 1958 (NS); 14. Gibbs and Tener 1958 (NWT); 15. Lubinsky 1958 (Alta, NWT); 16. Ritcey and Edwards 1958 (BC); 17. Gibbs 1960 (NWT?); 18. Anderson 1962b (Ont); 19. Stelfox 1962 (Alta); 20. Sweatman and Williams 1963 (Alta, NWT, Ont, Sask, YT); 21. Fyvie 1966 (Ont); 22. Flook and Stenton 1969 (Alta); 23. Barrett 1972 (Alta); 24. Samuel 1972b (Alta); 25. Samuel et al. 1976 (Alta); 26. Addison et al. 1979 (Ont); 27. Crichton 1979 (Man); 28. Rau and Caron 1979 (Que); 29. Crichton 1980 (Man)

Remarks: Benson (1958) assumed the cysts in the liver were hydatid cysts.

*Echinococcus granulosus* (Batsch, 1786) Rudolphi, 1801

(Lebanon strain)

Site: liver cysts

Hosts: *Mus musculus* lab.

*Sigmodon hispidus*

Dist.: Que

Record: Webster and Cameron 1961 exp.

*Echinococcus granulosus canadensis*

Site: liver cysts

Hosts: Lab. mice

A.K.R. mice

Dist.: Que

Record: Webster and Cameron 1961 exp.

*Echinococcus multilocularis* Leuckart, 1863

Site: intestine

Hosts: *Alopex lagopus* (1,5)

*Canis latrans* (4)

*Vulpes vulpes* (2,3,4)

Dist.: Man, NWT, Sask

Records: 1. Choquette et al. 1962 (NWT); 2.

Hnatiuk 1969 (Sask); 3. Baron 1970 (Man); 4.

Samuel, Ramalingam et al. 1978 (Man); 5.

Eaton and Secord 1979 (NWT)

*Echinococcus multilocularis* Leuckart, 1863

(hydatid cyst)

Sites: liver, peritoneum, subcutaneous

Hosts: *Meriones unguiculatus* (7)

*Microtus pennsylvanicus* (1)

*Peromyscus maniculatus* (2,3,4,8)

*Sigmodon hispidus* (5,6,7)

A/J lab. mice (7)

Dist.: Alta, Man, Que, Sask

Records: 1. Hnatiuk 1966 (Sask); 2. Lee 1969

(Man); 3. Leiby et al. 1969 (Man); 4. Holmes et

al. 1971 (Alta); 5. Rau and Tanner 1972 exp.

(Que); 6. Rau and Tanner 1973 exp. (Que); 7.

Baron et al. 1974 exp. (Que); 8. Chalmers and

Barrett 1974 (Alta)

*Echinococcus multilocularis sibiricensis* Vogel, 1955

Syn.: *Echinococcus sibiricensis* Rausch and Schiller, 1954

Site: liver cysts

Hosts: *Meriones unguiculatus*

*Mus musculus* lab.

*Ondatra zibethicus*

*Sigmodon hispidus*

Lab. mice

Lab. rats

Dist.: Que

Record: Webster and Cameron 1961 exp.

*Echinococcus* sp.

Site: liver

Host: *Bison bison*

Dist.: Alta

Records: Cameron 1923

*Multiceps* sp.

Site: intestine  
Host: *Lynx canadensis*  
Dist.: Alta, NWT  
Record: Zyll de Jong 1966

*Multiceps* sp. cyst

Site: skeletal muscle cysts  
Host: *Lepus americanus struthopus*  
Dist.: Nfld  
Record: Dodds and Mackiewicz 1961  
Remarks: Dodds and Mackiewicz (1961) did not specify the site in which the cysts were found, but presumably they were in skeletal muscle.

*Taenia crassiceps* (Zeder, 1800) Rudolphi, 1810

Site: small intestine  
Hosts: *Alopex lagopus* (6)  
*Canis lupus* (1,4)  
*Vulpes vulpes* (2,3,4,5)  
*Vulpes* sp. (1)  
Coyote x Dog (1)  
Dist.: Man, NB, NS, NWT, Ont  
Records: 1. Freeman et al. 1961 (Ont); 2. Freeman 1962 (Ont); 3. Baron 1970 (Man); 4. Samuel, Ramalingam et al. 1978 (Man); 5. Smith 1978b (NB, NS); 6. Eaton and Secord 1979 (NWT)

*Taenia crassiceps* (Zeder, 1800) Rudolphi, 1810  
(Cysticercus)

Sites: Subcutaneous tissue, thoracic and abdominal cavities  
Hosts: *Dicrostonyx groenlandicus richardsoni* (1)  
*D. torquatus* (4)  
*Marmota monax* (2)  
*Microtus pennsylvanicus* (2)  
*M. p. drummondii* (3)  
*Ondatra zibethicus* (2)  
*Peromyscus maniculatus* (2 exp.)  
*Sciurus carolinensis* (2 exp.)  
*Tamias striatus* (2)  
*Tamiasciurus hudsonicus* (2 exp.)  
Cotton rat (3 exp.)  
Gerbil (3 exp.)  
Lab. mouse (3 exp.)  
White mice (2 exp.)  
Dist.: Man, NWT, Ont  
Records: 1. Rausch 1952b (Man); 2. Freeman 1962 (Ont); 3. Lubinsky and Baron 1970 (Man); 4. Webster 1974 (NWT)

*Taenia hydatigena* Pallas, 1766

Site: intestine  
Hosts: *Canis latrans* (4,5,8)  
*C. lupus* (2,3,4,5,6,8,9,10)  
*Felis concolor* (2)  
*F. c. vancouverensis* (1)  
*Ursus americanus* (7,9)  
Dist.: Alta, BC, Man, NWT, Ont, Que, YT  
Records: 1. Cowan 1942 (BC), 2. 1944 (Alta); 3. Sweatman and Plummer 1957 exp. (Ont); 4. Freeman et al. 1961 (Ont); 5. Holmes and Podesta 1968 (Alta); 6. Choquette, Gibson et al. 1973 (NWT, YT); 7. Frechette and Rau 1977 (Que); 8. Samuel, Ramalingam and Carbyn 1978 (Man); 9. Dies 1979 (Alta); 10. McNeill et al. 1984 (Que)

*Taenia hydatigena* Pallas, 1766  
(Cysticercus)

Site: liver  
Hosts: *Alces alces* (3,5,9,11,15)  
*A. a. andersoni* (7)  
*Cervus elaphus* (5,15)  
*Odocoileus virginianus* (4)  
*Odocoileus* sp. (3)  
*Oreamnos americanus* (6,10)  
*Ovibos moschatus* (8,14)  
*Ovis canadensis canadensis* (10)  
*Rangifer tarandus* (2, 3)  
*R. t. groenlandicus* (1)  
Deer (5)  
Moose (12,13)  
Dist.: Alta, BC, Man, NWT, Ont, Que, Sask  
Records: 1. Banfield 1954 (not specified); 2. Choquette et al. 1957 (NWT); 3. Sweatman and Plummer 1957 (Alta, BC, NWT, Ont, Que, Sask); 4. Anderson 1962b (Ont); 5. Stelfox 1962 (Alta); 6. Kerr and Holmes 1966 (Alta); 7. Barrett 1972 (Alta); 8. Samuel 1972b (Alta); 9. Samuel et al. 1976 (Alta); 10. Samuel, Hall et al. 1978 (Alta); 11. Addison et al. 1979 (Ont); 12. Crichton 1979 (Man), 13. 1980 (Man); 14. Webster and Rowell 1980 (NWT); 15. Stock and Barrett 1983 (Alta)

*Taenia krabbei* Moniez, 1879

Site: intestine  
Hosts: *Canis latrans* (2)  
*C. lupus* (1,2,4)  
*Ursus americanus* (6,5,7)  
*U. arctos* (3)  
Dist.: Alta, NWT, Ont, Que, YT  
Records: 1. Freeman et al. 1961 (Ont); 2. Holmes and Podesta 1968 (Alta); 3. Choquette et al. 1969 (NWT, YT?); 4. Choquette et al. 1973 (NWT, YT); 5. Frechette and Rau 1977 (Que); 6. Addison et al. 1978 (Ont); 7. Dies 1979 (Alta)

*Taenia krabbei* Moniez, 1879

(cysticerus)

Sites: cardiac muscle, skeletal muscle

Hosts: *Alces alces* (4,6,7,9,10,11,12)

*A. a. andersoni* (8)

*Rangifer tarandus* (1,2,5)

*R. t. groenlandicus* (3,7)

Moose (13)

Dist.: Alta, Man, NWT, Ont, Que, Sask, YT

Records: 1. Erickson and Highby 1942 (Sask);

2. Cowan 1944 (Alta); 3. Banfield 1954 (not specified); 4. Peterson 1955 (Que); 5.

Choquette et al. 1957 (NWT); 6. Stelfox 1962

(Alta); 7. Sweatman and Henshall 1962 (NWT,

Ont, Sask, YT); 8. Barrett 1972 (Alta); 9.

Samuel 1972a (Alta), 10. 1972b (Alta); 11.

Samuel et al. 1976 (Alta); 12. Addison et al.

1979 (Ont); 13. Crichton 1979 (Man)

*Taenia laticollis* Rudolphi, 1819

Site: intestine

Hosts: *Canis latrans* (1)

*C. lupus* (1)

*Lynx canadensis* (2,3,4)

*L. rufus* (2)

Dist.: Alta, BC, Nfld, NWT, Ont

Records: 1. Freeman et al. 1961 (Ont); 2.

Adams 1964 (BC); 3. Zyll de Jong 1966 (Alta,

NWT); 4. Threlfall 1969 (Nfld)

*Taenia macrocystis* (Diesing, 1850) Lühe, 1910

Site: small intestine

Hosts: *Lynx canadensis*

*L. rufus*

Dist.: NB, Nfld, NS

Record: Bursey and Burt 1970

*Taenia macrocystis* (Diesing, 1850) Lühe, 1910

(metacestode)

Site: unspecified

Host: *Lepus americanus* (1)

Dist.: NB, NS

Record: Bursey and Burt 1970

*Taenia martis* (Zeder, 1803) Wahl, 1967

Site: digestive tract

Hosts: *Gulo gulo* (3)

*Martes americana* (1)

*M. a. actiosa* (2)

Dist.: NWT, Ont

Records: 1. Freeman 1956 (Ont); 2. Holmes

1963 (NWT); 3. Addison and Boles 1978

(NWT)

*Taenia multiceps* Leske, 1780

Syn: *Multiceps multiceps* (Leske, 1780)

Hall, 1919

Site: intestine

Hosts: *Canis latrans*

*C. lupus*

Dist.: Alta

Record: Holmes and Podesta 1968

*Taenia mustelae* Gmelin, 1790

Syn.: *Taenia tenuicollis* Rudolphi, 1819

Site: intestine

Hosts: *Martes americana* (5)

*M. a. actiosa* (3)

*Mustela erminea* (2,4)

*M. putorius* (2 exp.)

*M. vison* (1,2 exp.,4)

Dist.: Man, Nfld, NWT, Ont

Records: 1. Skinner 1935 (Ont); 2. Freeman

1956 (Ont); 3. Holmes 1963 (NWT); 4.

Jennings et al. 1982 (Nfld); 5. Poole et al. 1983

(Man)

Remarks: Verster (1969) noted that *T.*

*tenuicollis* is a synonym of *T. mustelae*.

*Taenia mustelae* Gmelin, 1790

(metacestode)

Syn.: *Taenia tenuicollis* Rudolphi, 1819

Sites: liver, lungs, kidneys, mesenteries

Hosts: *Clethrionomys gapperi* (1,3,5,6)

*Eutamias minimus* (3,7)

*Marmota monax* (3)

*Microtus ochrogaster* (5)

*M. pennsylvanicus* (1,3,5)

*Mus musculus* (3 exp.)

*Mustela putorius* (3 exp.)

*M. vison* (3 exp.)

*Ondatra zibethicus* (3,3 exp.,6)

*Peromyscus leucopus* (4)

*P. maniculatus* (1,2,3,6)

*Spermophilus franklinii* (7)

*S. tridecemlineatus* (7)

*Synaptomys borealis* (1)

*Tamias striatus* (3)

*Tamiasciurus hudsonicus* (3 exp.,7)

*Thomomys talpoides* (5)

*Zapus hudsonius* (3)

Dist.: Alta, NB, Nfld, NWT, Ont, Que, Sask

Records: 1. Schad 1954 (Nfld, Que), 2. 1956

(Que); 3. Freeman 1956 (Ont); 4. Gibbs 1957

(NWT); 5. Lubinsky 1957 (Alta); 6. Freeman

and Wright 1960 (Ont); 7. MacKinnon and

Burt 1978 (NB); 8. Mahrt and Chai 1972

(Alta); 9. McGee 1980 (Sask)

Remarks: Verster (1969) noted that *T.*

*tenuicollis* is a synonym of *T. mustelae*.



- Taenia omissa* Lühe, 1910  
 Site: digestive tract  
 Hosts: *Canis lupus*  
*Felis concolor*  
 Dist.: Alta, BC  
 Record: Holmes and Podesta 1968
- Taenia ovis* (Cobbold, 1869) Ransom, 1913  
 (cysticercus)  
 Site: muscle  
 Host: *Rangifer tarandus groenlandicus*  
 Dist.: NWT  
 Record: Banfield 1954
- Taenia ovis* / *T. krabbei* Moniez, 1879  
 (cysticercus)  
 Site: muscle  
 Hosts: *Alces alces*  
*Odocoileus hemionus columbianus*  
*Rangifer tarandus*  
 Dist.: Alta, BC  
 Record: Cowan 1951
- Taenia pisiformis* (Bloch, 1780) Gmelin, 1790  
 Site: intestine  
 Hosts: *Canis latrans* (2,5,7)  
*C. lupus* (1,2,5,6)  
*Lynx canadensis* (4)  
*Vulpes vulpes* (3)  
 Coyote x Dog (2)  
 Dist.: Alta, Man, NWT, Ont  
 Records: 1. Law and Kennedy 1932 (Ont); 2. Freeman et al. 1961 (Ont); 3. Freeman 1962 (Ont); 4. Zyll de Jong 1966 (Alta, NWT); 5. Holmes and Podesta 1968 (Alta); 6. Choquette et al. 1973 (NWT); 7. Samuel, Ramalingam et al. 1978 (Man)
- Taenia pisiformis* (Bloch, 1780) Gmelin, 1790  
 (cysticerci)  
 Sites: abdominal cavity, liver, skeletal muscle  
 Hosts: *Lepus americanus* (1,2,4,5)  
*L. a. struthopus* (3)  
 Dist.: Alta, Man, Nfld  
 Records: 1. Boughton 1932 (Man); 2. Lubinsky 1957 (Alta); 3. Dodds and Mackiewicz 1961 (Nfld); 4. Smith and Threlfall 1973 (Nfld); 5. Keith et al. 1985 (Alta)
- Taenia polyacantha* Leukart, 1856  
 Site: intestine  
 Host: *Alopex lagopus*  
 Dist.: NWT  
 Record: Webster 1974
- Taenia rileyi* Loewen, 1929  
 Site: intestine  
 Hosts: *Lynx canadensis* (1,2)  
*L. rufus* (1)  
 Dist.: Alta, BC, NWT  
 Records: 1. Adams 1964 (BC); 2. Zyll de Jong 1966 (Alta, NWT)  
 Remarks: The records of Adams (1964) involved a tentative parasite identification. The parasite's distinction from *Taenia omissa* was uncertain.
- Taenia rileyi* Loewen, 1929  
 (cysticerci)  
 Site: unspecified  
 Host: *Tamiasciurus hudsonicus*  
 Dist.: Alta  
 Record: Mahrt and Chai 1972
- Taenia serialis* (Gervais, 1847) Baillet, 1863  
 Site: intestine  
 Host: *Canis lupus*  
 Dist.: NWT, YT  
 Record: Choquette et al. 1973
- Taenia serialis* (Gervais, 1847) Baillet, 1863  
 (coenurus)  
 Syn.: *Multiceps serialis* (Gervais, 1847)  
 Stiles and Stevenson, 1905  
 Site: body cavity, connective tissue, liver  
 Hosts: *Lepus americanus* (1,5)  
*L. a. pallidus* (2)  
 Varying hare (3,4)  
 Dist.: Alta, BC, Man, Nfld, Ont  
 Records: 1. Boughton 1932 (Man); 2. Cowan 1942 (BC); 3. Freeman et al. 1961 (Ont); 4. Fyvie 1966 (Ont); 5. Smith and Threlfall 1973 (Nfld); 6. Keith et al. 1985 (Alta)
- Taenia sibirica* Dubnitzky, 1952  
 Site: intestine  
 Host: *Martes pennanti*  
 Dist.: Man  
 Record: Dick and Leonard 1979
- Taenia taeniaeformis* (Batsch, 1786) Wolffügel, 1911  
 Site: digestive tract  
 Hosts: *Canis lupus* (2)  
*Felis concolor vancouverensis* (1)  
*Lynx rufus fasciatus* (1)  
 Dist.: Alta, BC  
 Records: 1. Cowan 1942 (BC); 2. Holmes and Podesta 1968 (Alta)

*Taenia taeniaeformis* (Batsch, 1786) Wolffügel, 1911

(cysticercus)

Site: liver

Hosts: *Lepus americanus struthopus* (5)

*Mus musculus* (4)

*Ondatra zibethicus* (1,2,7)

*O. z. osoyoosensis* (3)

*Rattus norvegicus* (6)

Dist.: Alta, BC, Man, Nfld, Ont

Records: 1. Anonymous 1930 (Ont); 2. Law and

Kennedy 1932 (Ont); 3. Knight 1951 (BC); 4.

Lubinsky 1957 (Alta); 5. Dodds and

Mackiewicz 1961 (Nfld); 6. Smith and

Threlfall 1973 (Nfld); 7. McKenzie and Welch

1979 (Man)

*Taenia taxidiensis* Skinner, 1935

(cysticercus)

Site: musculature of rear legs

Host: *Spermophilus franklinii*

Dist.: Sask

Record: McGee 1980

*Taenia twitchelli* Schwartz, 1924

Site: digestive tract

Hosts: *Canis latrans* (1)

*Gulo gulo* (2)

Dist.: Alta, NWT

Records: 1. Holmes and Podesta 1968 (Alta); 2.

Addison and Boles 1978 (NWT)

Unidentified *Taenia* spp.

Sites: digestive tract, small intestine

Hosts: *Canis latrans* (7)

*Canis lupus* (2,6,7,9)

*Lynx canadensis* (5)

*Martes americana* (4,8)

*Mustela vison* (1)

*Vulpes vulpes* (3,7)

Dist.: Alta, Man, NWT, Ont, Que, YT

Records: 1. Law and Kennedy 1932 (Ont); 2.

DeVos and Allin 1949 (Ont); 3. Freeman 1962

(Ont); 4. Holmes 1963 (NWT); 5. Zyll de Jong

1966 (Alta, NWT); 6. Choquette et al. 1973

(NWT, YT); 7. Samuel, Ramalingam and

Carbyn 1978 (Man); 8. Poole et al. 1983 (Man);

9. McNeill et al. 1984 (Que)

*Taenia* spp. metacestode

Sites: myocardium, peritoneal cavity

Hosts: *Alces alces* (2)

*Microtus pennsylvanicus drummondi*  
(3)

*Ondatra zibethicus* (1)

Dist.: Man, Ont

Records: 1. Anonymous 1930 (Ont); 2. DeVos

and Allin 1949 (Ont); 3. Rausch and Tiner

1949 (Man)

Unidentified Taeniid ova

Site: intestine

Host: *Ursus americanus*

Dist.: Que

Record: Frechette and Rau 1977

Remarks: Frechette and Rau (1977) believed

their material was probably *T. krabbei* and/or

*T. hydatigena*.

## ORDER PSEUDOPHYLLIDEA

### FAMILY DIPHYLLOBOTHRIDA

*Diphyllobothrium cordatum* Leuckart, 1863

Site: intestine

Host: *Vulpes vulpes*

Dist.: Ont

Record: Law and Kennedy 1932 (Ont)

*Diphyllobothrium latum* Linnaeus, 1758

Site: intestine

Host: *Vulpes vulpes*

Dist.: Ont

Record: Law and Kennedy 1932

*Diphyllobothrium ursi* Rausch, 1954

Site: intestine

Hosts: *Ursus americanus* (2,3)

*U. arctos* (1)

Dist.: BC, Que, YT

Records: 1. Choquette et al. 1969 (BC, YT); 2.

Frechette and Rau 1977 (Que); 3. Juniper 1978

(Que)

*Diphyllobothrium ursi* Rausch, 1954

(eggs)

Site: intestine

Host: *Ursus americanus*

Dist.: Que

Record: Frechette and Rau 1978

*Diphyllobothrium* spp.

Site: digestive tract

Hosts: *Canis latrans* (3)

*C. lupus* (1,3,4)

*Gulo gulo* (5)

*Vulpes vulpes* (2)

Dist.: Alta, NWT, Ont

Records: 1. De Vos and Allin 1949 (Ont); 2.

Freeman 1962 (Ont); 3. Holmes and Podesta

1968 (Alta); 4. Choquette et al. 1973 (NWT); 5.

Addison and Boles 1978 (NWT)

*Diphyllobothrium* sp. eggs

Site: intestine

Host: *Ursus americanus*

Dist.: Que

Record: Frechette and Rau 1977

*Schistocephalus solidus* (Müller, 1776) Steenstrup,  
1857

(plerocercoid)

Site: gastro-intestinal tract

Host: *Lutra canadensis*

Dist.: Nfld

Record: Smith and Threlfall 1973

Remarks: The plerocercoid was probably  
acquired by eating infected fish, and is not  
considered a true parasite of *Lutra canadensis*.

Unidentified Cestoda

Cestoda gen. spp.

Site: digestive tract, muscle

Hosts: *Alces alces* (1)

*Clethrionomys gapperi* (2)

*Lasiurus cinereus* (3)

Dist.: BC, Nfld, Que

Records: 1. Cowan 1942 (BC); 2. Schad 1954 (Nfld,  
Que); 3. Webster and Casey 1973 (BC)

**PHYLUM**

**NEMATHELMINTHES**

**CLASS NEMATODA**

**SUBCLASS ADENOPHOREA**

**ORDER ENOPLIDA**

**SUPERFAMILY**

**DIOCTOPHYMATOIDEA**

**FAMILY DIOCTOPHYMATIDAE**

*Dioctophyma renale* (Goeze, 1782) Collet-Meygret,  
1802

Site: kidney

Hosts: *Canis latrans* (5)

*C. lupus* (9)

*Mustela vison* (1,2,3,6,7,8)

Mink (4)

Dist.: Alta, Man, Ont, Que

Records: 1. Anonymous 1930 (Ont); 2. Law and

Kennedy 1932 (Ont); 3. Swales 1933b (Que); 4.

Fyvie 1966 (Ont); 5. Holmes and Podesta 1968

(Alta); 6. Crichton and Urban 1970 (Man); 7.

Mace and Anderson 1975 (Ont); 8. Mace 1976

(Ont); 9. McNeill et al. 1984 (Que)

*Eustrongylides* sp. larva

Site: muscle

Host: *Ondatra zibethicus*

Dist.: Ont

Record: Gibson and McKiel 1972

**SUPERFAMILY TRICHINELLOIDEA**

**FAMILY TRICHINELLIDAE**

*Trichinella spiralis* (Owen, 1835) Railliet, 1894

Site: small intestine

Hosts: *Martes pennanti* (4)

*Mesocricetus auratus* (3)

*Mus musculus* lab. (2,3,5)

*Rattus* sp. (1)

*Ursus maritimus* (3)

Lab. rat (3)

Dist.: Man, NB, NS, PEI, Que

Records: 1. Frank 1951 (NB, NS, PEI); 2.

Shanta and Meerovitch 1967a (Que); 3. Dick

and Belosevic 1978 (Man); 4. Dick and

Leonard 1979 (Man); 5. Dick and Chadee 1983

(Man)

*Trichinella spiralis* (Owen, 1835) Railliet, 1894  
(cyst/larva)

Sites: diaphragm, tongue, skeletal muscle

Hosts: *Alopex lagopus* (14)

*Canis latrans* (9,11)

*C. lupus* (8,9,13)

*Felis concolor* (11)

*Gulo gulo* (11,13)

*Lynx canadensis* (11)

*L. rufus* (9,11)

*Martes americana* (14,15)

*Mephitis mephitis* (11)



*Mus musculus* lab. (4,5,14 exp.)

*Mustela frenata* (11)

*M. vison* (11)

*Peromyscus maniculatus* (11)

*Procyon lotor* (9)

*Rattus* sp. (2,3)

*Sorex vagrans* (11)

*Spermophilus columbianus* (11)

*Tamiasciurus hudsonicus* (11)

*Ursus americanus* (7,9,10,11)

*U. arctos* (6,11)

*U. maritimus* (12,14)

*Vulpes vulpes* (9,14)

Lab. rat (1)

Dist.: Alta, BC, NB, Nfld, NS, NWT, PEI, Que, YT

Records: 1. Moynihan and Musfeldt 1949 (BC); 2. Frank 1951 (NB, NS, PEI); 3. Pool 1952 (BC); 4. Shanta and Meerovitch 1967a exp. (Que); 5. Shanta and Meerovitch 1967b (Que); 6. Choquette et al. 1969 (NWT, YT); 7. Schmitt et al. 1972 (BC); 8. Choquette et al. 1973 (NWT, YT); 9. Frechette and Panisset 1973 (Que); 10. Frechette and Rau 1977 (Que); 11. Schmitt et al. 1978 (BC); 12. Smith 1978a (Nfld); 13. Dies 1980 (Alta); 14. Chadee and Dick 1982 (Man, NWT); 15. Bourque 1985 (Que)

Remarks: Smith (1978a) reported *T. spiralis* from *Thalarctos maritimus*. I am following Hall's (1981) classification and calling the host *Ursus maritimus*.

*Trichinella spiralis* var. *pseudospiralis*

Site: muscle

Hosts: *Mus musculus* (1,2)

*Procyon lotor* (1)

Dist.: Man

Records: 1. Dick 1983 exp.; 2. Dick and Chadee 1983

*Trichinella* spp.

Site: unspecified

Hosts: *Canis lupus* (1)

*Procyon lotor* (2)

Lab. mouse (2)

Dist.: Alta, Man

Records: 1. Gunson and Dies 1980 (Alta); 2. Dick 1983 exp. (Man)

*Trichinella* spp. larva

Site: diaphragm, tongue

Hosts: *Felis concolor* (3)

*Martes americana* (2)

*Ursus americanus* (1)

*U. arctos* (3)

Dist.: Alta, Man, Ont

Records: 1. Addison et al. 1978 (Ont); 2. Poole et al. 1983 (Man); 3. Dies and Gunson 1984 (Alta)

FAMILY TRICHURIDAE

*Capillaria aerophila* Creplin, 1839

Site: Lungs, bronchi, trachea

Hosts: *Canis latrans* (3)

*C. lupus* (3)

*Martes americana* (5,6)

*Vulpes vulpes* (1,2,4,5,6)

Dist.: Alta, NB, NS, Ont, Que

Records: 1. Law and Kennedy 1932 (Ont); 2. Swales 1933b (Que); 3. Holmes and Podesta 1968 (Alta); 4. Smith 1978b (NB, NS); 5. Butterworth and Beverley-Burton 1980 (Ont), 6. 1981 (Ont)

*Capillaria eubursata* Skarbilovich, 1946

Site: digestive tract

Host: *Myotis lucifugus*

Dist.: BC

Record: Webster and Casey 1973

*Capillaria hepatica* Bancroft, 1896

Site: liver

Hosts: *Antilocapra americana* (11)

*Canis latrans* (13)

*Clethrionomys gapperi* (10)

*C. g. gapperi* (8)

*Microtus pennsylvanicus* (10)

*M. p. pennsylvanicus* (8)

*Mus musculus* lab. (8 exp., 9 exp., 12)

*Napaeozapus i. insignis* (8)

*Ondatra zibethicus* (1,2,4,5,14)

*Peromyscus leucopus* (9 exp.)

*P. l. noveboracensis* (8 exp.)

*P. maniculatus* (5,6,7,8,9,10)

*Rattus norvegicus* (3)

*Spermophilus franklinii* (15)

*S. richardsonii* (15)

*Synaptomys c. cooperi* (8)

*Tamiasciurus hudsonicus* (8 exp.)

*Thomomys talpoides* (5,6)

Dist.: Alta, BC, Man, Ont, Que, Sask

Records: 1. Price 1931 (Ont); 2. Law and Kennedy 1932 (Ont); 3. Firlotte 1948 (Que); 4. Knight 1951 (BC); 5. Lubinsky 1956 (Alta), 6. 1957 (Alta); 7. Freeman 1958 (Ont); 8. Freeman and Wright 1960 (Ont); 9. Wright 1961 (Ont); 10. Lubinsky et al. 1971 (Man); 11. Barret and Chalmers 1972 (Alta); 12. Wright 1972 (Ont); 13. Wobeser and Rock 1973 (Sask); 14. McKenzie and Welch 1979 (Man); 15. McGee 1980 (Sask)

- Capillaria michiganensis* Read, 1949  
 Site: intestine  
 Hosts: *Ondatra zibethicus* (1,2)  
*O. z. obscurus* (3)  
 Dist.: Man, Nfld, Ont  
 Records: 1. Webster 1966b (Ont); 2. McKenzie and Welch 1979 (Man); 3. Rigby and Threlfall 1981 (Nfld)
- Capillaria mustelorum* Cameron and Parnell, 1932  
 Site: intestine  
 Host: *Mustela vison*  
 Dist.: Nfld  
 Record: Jennings et al. 1982  
 Remarks: Jennings et al. (1982) did not specify the site in which their specimens were found, but presumably it was the intestine.
- Capillaria plica* (Rudolphi, 1819) Travassos, 1915  
 Site: urinary bladder  
 Hosts: *Canis latrans* (3,5)  
*Martes pennanti* (3,5)  
*Mephitis mephitis* (3,5)  
*Procyon lotor* (3,5)  
*Sorex cinereus* (4)  
*Vulpes vulpes* (1,2,3,5)  
 Dist.: Ont, Que  
 Records: 1. Law and Kennedy 1932 (Ont); 2. Swales 1933b (Que); 3. Butterworth and Beverley-Burton 1980 (Ont); 4. Bourque 1981 (Que); 5. Butterworth and Beverley-Burton 1981 (Ont)
- Capillaria procyonis* Pence, 1975  
 Site: esophageal mucosa  
 Hosts: *Mephitis mephitis*  
*Procyon lotor*  
 Dist.: Ont  
 Records: Butterworth and Beverley-Burton 1980, 1981
- Capillaria putorii* (Rudolphi, 1819) Travassos, 1915  
 Site: stomach  
 Hosts: *Martes americana*  
*M. pennanti*  
*Mephitis mephitis*  
*Mustela erminea*  
*M. vison*  
*Procyon lotor*  
 Dist.: Ont  
 Records: Butterworth and Beverley-Burton 1980, 1981
- Capillaria ransomia* Barker and Noyes, 1915  
 Site: intestine  
 Host: *Ondatra zibethicus*  
 Dist.: BC  
 Record: Knight 1951
- Capillaria* spp.  
 Site: small intestine  
 Hosts: *Canis latrans* (7)  
*Mustela vison* (1,2)  
*Odocoileus hemionus columbianus* (3,4)  
*Ovibos moschatus* (6)  
*Peromyscus maniculatus* (5)  
*Procyon lotor* (2)  
 Dist.: Alta, BC, Ont, Que  
 Records: 1. Anonymous 1930 (Ont); 2. Law and Kennedy 1932 (Ont); 3. Cowan 1946 (BC), 4. 1951 (BC); 5. Schad 1956 (Que); 6. Samuel and Gray 1974 capt. (Alta); 7. Samuel, Ramalingam et al. 1978 (Alta)
- Capillaria* sp. larva  
 Site: intestine  
 Host: *Mustela erminea*  
 Dist.: Nfld  
 Record: Jennings et al. 1982  
 Remarks: Jennings et al. (1982) did not specify the site in which their specimens were found, but presumably it was the intestine.
- Trichosomoides crassicauda* (Bellingham, 1840) Railliet, 1895  
 Site: intestine  
 Host: *Rattus norvegicus*  
 Dist.: Que  
 Record: Firlotte 1948
- Trichuris fossor* Hall, 1916  
 Site: caecum  
 Host: *Thomomys talpoides*  
 Dist.: Alta  
 Record: Lubinsky 1957
- Trichuris leporis* (Froelich, 1789)  
 Site: large intestine  
 Hosts: *Lepus americanus* (1)  
*Spermophilus richardsonii* (2)  
 Dist.: Man  
 Records: 1. Boughton 1932; 2. Tiner 1950
- Trichuris muris* (Schränk, 1788) Hall, 1916  
 Sites: caecum, colon  
 Host: *Mus musculus*  
 Dist.: Ont  
 Record: Lee and Wright 1978 exp.

*Trichuris opaca* Barker and Noyes, 1915

Site: caecum  
Host: *Ondatra zibethicus*  
Dist.: BC, Ont  
Records: Knight 1951 (BC); Sweatman 1952b (Ont)

*Trichuris oreamnos* Knight, 1974

Site: caecum  
Host: *Oreamnos americanus*  
Dist.: BC  
Records: Knight 1974; Samuel, Hall et al. 1978

*Trichuris ovis* (Abildgaard, 1795) Smith, 1908

Sites: caecum, ileum  
Hosts: *Cervus elaphus* (5)  
*Odocoileus hemionus columbianus* (3,4)  
*Oreamnos americanus* (2,4)  
*Ovis c. canadensis* (1)  
Dist.: Alta, BC  
Records: 1. Cowan 1942 (BC), 2. 1944 (Alta), 3. 1946 (BC), 4. 1951 (Alta, BC); 5. Flook and Stenton 1969 (Alta)

*Trichuris schumakovitschi* (Savinkova, 1967)

Knight and Uhazy, 1973  
Site: intestine  
Hosts: *Oreamnos americanus* (2)  
*Ovis c. canadensis* (1,2)  
Dist.: Alta, Canada  
Records: 1. Knight and Uhazy 1973 (Canada); 2. Samuel, Hall et al. 1978 (Alta)

*Trichuris vulpis* (Froelich, 1789)

Site: intestine  
Host: *Vulpes vulpes*  
Dist.: Que  
Record: Swales 1933b  
Remarks: Swales (1933b) did not specify the site in which his specimens were found, but presumably it was the intestine.

*Trichuris* spp.

Sites: caecum, feces  
Hosts: *Alces alces* (2,8,11)  
*A. a. andersoni* (5)  
*Cervus elaphus* (11)  
*Odocoileus hemionus* (9)  
*Oreamnos americanus* (3,9)  
*Ovibos moschatus* (6,7)  
*Ovis canadensis californianus* (2)  
*Spermophilus richardsonii* (1,10)  
Dist.: Alta, BC, Man, Sask  
Records: 1. Rauseh and Tiner 1948 (Man); 2. Blood 1963 (BC); 3. Kerr and Holmes 1966 (Alta); 4. Walker and Becklund 1970 (BC); 5.

Barrett 1972 (Alta); 6. Samuel and Gray 1974 capt. (Alta); 7. MacDonald et al. 1976 (Alta); 8. Samuel et al. 1976 (Alta); 9. Samuel, Hall et al. 1978 (Alta); 10. McGee 1980 (Sask); 11. Stock and Barrett 1983 (Alta)  
Remarks: Kerr and Holmes (1966) feel their species was probably *Trichuris ovis*.

**SUBCLASS SECERNENTEA**  
**ORDER ASCARIDIDA**  
**SUPERFAMILY ASCARIDOIDEA**  
**FAMILY ANISAKIDAE**

*Anisakis* sp.

Site: stomach  
Host: Guinea pig  
Dist.: Que  
Record: Myers 1963 exp.

**FAMILY ASCARIDIDAE**

*Ascaris* spp.

Site: intestine  
Hosts: *Mustela vison* (2)  
*Procyon lotor* (1,2)  
*Tamiasciurus hudsonicus* (4)  
*Taxidea taxus* (3)  
*Ursus americanus* (5)  
Dist.: Alta, Ont, Que  
Records: 1. Anonymous 1930 (Ont); 2. Law and Kennedy 1932 (Ont); 3. Swales 1933b (Alta); 4. Mahrt and Chai 1972 (Alta); 5. Juniper 1978 (Que)

*Baylisascaris columnaris* (Leidy, 1856)

Syn.: *Ascaris columnaris*  
Site: digestive tract  
Host: *Mephitis mephitis*  
Dist.: Ont, Que  
Records: Choquette 1951 (Que); Sprent 1952 (Ont); Webster and Wolfgang 1956 (Que)

*Baylisascaris devosi* (Sprent, 1952)

Syn.: *Ascaris devosi*  
Site: intestine  
Hosts: *Gulo gulo* (3)  
*Martes americanus* (4)  
*M. a. americanus* (1)  
*M. pennanti* (4)  
*M. p. pennanti* (1)  
*Mephitis mephitis* (1 exp.)  
*Mustela putorius* (1 exp.)  
Dist.: Man, NWT, Ont  
Records: 1. Sprent 1952 (Ont); 2. Addison and Boles 1978 (NWT); 3. Dick and Leonard 1979 (Man); 4. Poole et al. 1983 (Man)



*Baylisascaris laevis* (Leidy, 1856)

Site: small intestine

Hosts: *Marmota vancouverensis* (2)

*Spermophilus richardsonii* (1)

Dist.: BC, Sask

Records: 1. McGee 1980 (Sask); 2. Mace and Shepard 1981 (BC)

*Baylisascaris transfuga* (Rudolphi, 1819) Sprent, 1968

Syn.: *Ascaris transfuga* Rudolphi, 1819

Sites: large and small intestine

Hosts: *Ursus americanus* (4,5,6)

*U. a. vancouveri* (2)

*U. arctos* (1,3)

Dist.: Alta, BC, NWT, Ont, Que, YT

Records: 1. Baird 1853 (BC); 2. Cowan 1942 (BC); 3. Choquette et al. 1969 (YT?, NWT?); 4. Frechette and Rau 1977 (Que); 5. Addison et al. 1978 (Ont); 6. Dies 1979 (Alta)

Remarks: Baird (1853) referred to the grizzly bear as *Ursus ferox*.

*Baylisascaris transfuga* (Rudolphi, 1819) Sprent, 1968

(eggs)

Site: intestine

Host: *Ursus americanus*

Dist.: Que

Record: Frechette and Rau 1978

*Baylisascaris* sp. larva

Site: liver

Host: *Spermophilus richardsonii*

Dist.: Sask

Record: McGee 1980

*Toxascaris leonina* (Von Linstow, 1902) Leiper, 1907

Syn.: *Toxascaris limbata*

Site: small intestine

Hosts: *Alopex lagopus* (9)

*Canis latrans* (5,8)

*C. lupus* (5,7,8)

*Lynx canadensis* (4,6)

*L. rufus fasciatus* (3)

*Vulpes vulpes* (1,2,8)

Dist.: Alta, BC, Man, Nfld, NWT, Ont, Que, YT

Records: 1. Law and Kennedy 1932 (Ont); 2. Swales 1933b (Que); 3. Cowan 1942 (BC); 4. Zyll de Jong 1966 (Alta, NWT); 5. Holmes and Podesta 1968 (Alta); 6. Threlfall 1969 (Nfld); 7. Choquette et al. 1973 (NWT, YT); 8. Samuel, Ramalingam et al. 1978 (Man); 9. Eaton and Secord 1979 (NWT)

*Toxocara canis* (Werner, 1782) Stiles, 1905

Site: small intestine

Hosts: *Canis latrans* (2)

*C. lupus* (2)

*Vulpes vulpes* (1,3,4)

Dist.: Alta, Man, NB, NS, Ont

Records: 1. Law and Kennedy 1932 (Ont); 2. Holmes and Podesta 1968 (Alta); 3. Baron 1970 (Man); 4. Smith 1978b (NB, NS)

*Toxocara cati* (Schränk, 1788) Brumpt, 1927

Syn.: *Toxocara mystax* (Zeder, 1800)

Site: small intestine

Host: *Lynx canadensis*

Dist.: Alta, NWT, Ont

Record: Anonymous 1930 (Ont); Law and Kennedy 1932 (Ont); Zyll de Jong 1966 (Alta, NWT)

Ascarid gen. sp. egg

Site: intestine (feces)

Host: *Ursus americanus*

Dist.: Que

Record: Frechette and Rau 1977

Remarks: Frechette and Rau (1977) noted that their specimens were probably *Baylisascaris transfuga*.

## SUPERFAMILY HETERAKOIDEA

### FAMILY HETERAKIDAE

*Heterakis spumosa* Schneider, 1866

Site: intestine

Host: *Rattus norvegicus*

Dist.: Nfld, Que

Records: Firlotte 1948 (Que); Smith and Threlfall 1973 (Nfld)

## SUPERFAMILY SUBULUROIDEA

### FAMILY SUBULURIDAE

*Oxyntema* sp.

Site: small intestine

Host: *Spermophilus tridecemlineatus*

Dist.: Alta

Record: Lubinsky 1957

## ORDER OXYURIDA

## SUPERFAMILY OXYUROIDEA

### FAMILY HETEROXYNEMATIDAE

*Cephaluris alaskensis* Akhtar  
Site: gastrointestinal tract  
Hosts: *Ochotona collaris*  
*O. princeps*  
Dist.: Alta, YT  
Record: Hobbs 1980

*Cephaluris coloradensis* Olsen, 1949  
Site: gastrointestinal tract  
Hosts: *Ochotona collaris*  
*O. princeps*  
Dist.: Alta, YT  
Record: Hobbs 1980

*Heteroxyrema cucullatum* Hall, 1916  
Site: caecum  
Host: *Eutamias minimus*  
Dist.: Sask  
Record: McGee 1980

*Labiostomum coloradensis* Leiby, 1961  
Site: gastrointestinal tract  
Host: *Ochotona princeps*  
Dist.: Alta  
Record: Hobbs 1980

*Labiostomum rauschi* Akhtar, 1956  
Site: gastrointestinal tract  
Host: *Ochotona collaris*  
Dist.: YT  
Record: Hobbs 1980

*Labiostomum talkeetnaeauris* (Akhtar, 1956)  
Syn.: *Eugenuris talkeetnaeauris* Akhtar, 1956  
Site: gastrointestinal tract  
Host: *Ochotona collaris*  
Dist.: YT  
Record: Hobbs 1980

Unidentified *Labiostomum* sp.  
Site: gastrointestinal tract  
Host: *Ochotona princeps*  
Dist.: Alta  
Record: Hobbs 1980

#### FAMILY OXYURIDAE

*Passalurus nonanulatus* Skinker, 1931  
Site: large intestine  
Host: *Lepus americanus*  
Dist.: Man  
Record: Boughton 1932

*Skrjabinema ovis* Skrjabin, 1915  
Site: caecum, large intestine  
Hosts: *Oreamnos americanus* (1,2)  
*Ovis c. canadensis* (2)  
Dist.: Alta  
Records: 1. Kerr and Holmes 1966; 2. Samuel, Hall et al. 1978

*Skrjabinema* sp.  
Sites: caecum, large intestine  
Host: *Ovis canadensis californianus*  
Dist.: BC  
Record: Blood 1963

*Syphacia citelli* Tiner and Rausch, 1950  
Site: caecum  
Host: *Spermophilus richardsonii*  
Dist.: Sask  
Record: McGee 1980

*Syphacia eutamii* Tiner, 1948  
Site: large intestine  
Host: *Eutamias amoenus*  
Dist.: Alta  
Record: Lubinsky 1957

*Syphacia obvelata* (Rudolphi, 1802) Seurat, 1916  
Syn.: *Ascaris obvelata* Rudolphi, 1802  
Site: large intestine  
Hosts: *Microtus pennsylvanicus* (2)  
*M. p. drummondi* (1)  
*Mus musculus* (3)  
Dist.: Man, Nfld, Que  
Records: 1. Rausch and Tiner 1949 (Man); 2. Schad 1954 (Nfld, Que); 3. Threlfall 1969 (Nfld)

*Syphacia peromysci* Harkema, 1936  
Sites: caecum, colon  
Host: *Peromyscus maniculatus*  
Dist.: Que  
Record: Schad 1956

*Syphacia thompsoni* Price, 1928  
Site: caecum  
Host: *Tamiasciurus hudsonicus*  
Dist.: Alta, Sask  
Records: Mahrt and Chai 1972 (Alta); McGee 1980 (Sask)

**ORDER RHABDITIDA**  
**SUPERFAMILY RHABDITOIDEA**

**FAMILY RHABDITIDAE**

*Pelodera strongyloides* (Schneider, 1860)

Schneider, 1866

larva

Site: conjunctival sacs

Hosts: *Dicrostonyx groenlandicus*

*Lemmus trimucronatus*

*Microtus pennsylvanicus* (exp.)

*Mus musculus* (exp.)

*Peromyscus maniculatus* (exp.)

Dist.: NWT

Record: Cliff et al. 1978

**FAMILY STRONGYLOIDIDAE**

*Strongyloides papillosus* (Wedl, 1856) Ransom,

1911

Site: large intestine

Host: *Lepus americanus*

Dist.: Man

Record: Boughton 1932

*Strongyloides ratti* Sandground, 1925

Site: intestine

Host: *Rattus norvegicus*

Dist.: Que

Record: Firlotte 1948

*Strongyloides robustus* Chandler, 1942

Site: intestine

Hosts: *Spermophilus richardsonii*

*S. tridecemlineatus*

*Tamiasciurus hudsonicus*

Dist.: Sask

Record: McGee 1980

*Strongyloides* sp.

Site: intestine

Host: *Mustela vison*

Dist.: Ont

Record: Law and Kennedy 1932

**ORDER SPIRURIDA**

**SUPERFAMILY**

**DRACUNCULOIDEA**

**FAMILY DRACUNCULIDAE**

*Dracunculus insignis* (Leidy, 1858) Chandler,  
1942

Site: connective tissue

Hosts: *Martes pennanti* (4,5)

*Mephitis mephitis* (2)

*Mustela vison* (4,5,6)

*Ondatra zibethicus* (3)

*Procyon lotor* (4,5,6,7)

Mink (1)

Muskrat (1)

Otter (1)

Raccoon (1)

Dist.: Ont

Records: 1. Fyvie 1966; 2. Webster and Casey  
1970; 3. Gibson and McKiel 1972; 4. Crichton  
and Beverley-Burton 1973, 5. 1974, 6. 1975  
exp., 7. 1977

*Dracunculus lutrae* Crichton and Beverley-  
Burton, 1973

Site: connective tissue

Host: *Lutra canadensis*

Dist.: Ont

Records: Crichton and Beverley-Burton 1973,  
1974

*Dracunculus* spp.

Site: unspecified

Hosts: *Didelphis virginiana* (2,3)

*Lutra canadensis* (1)

*Mustela erminea* (1,2,3)

*M. vison* (1)

*Ondatra zibethicus* (1,2,3)

*Procyon lotor* (3)

*Taxidea taxus* (2)

Dist.: Man, Ont

Records: 1. Crichton 1971 (Ont); 2. Crichton  
and Beverley-Burton 1973 (Man, Ont), 3. 1974  
(Ont)

Remarks: Crichton (1971) stated that  
*Dracunculus* sp. in his *Ondatra zibethicus* and  
*Mustela erminea* ..."probably represent  
accidental infections."

**SUPERFAMILY FILARIOIDEA**

**FAMILY FILARIOIDAE**

*Filaria* sp.

Site: trachea

Host: *Mustela vison*

Dist.: Ont

Record: Law and Kennedy 1932



FAMILY ONCHOCERCIDAE

*Ackertia marmotae* Webster, 1967

Sites: lymphatics, connective tissue of the gall bladder and bile

Hosts: *Marmota monax* (2)  
*M. m. canadensis* (1)

Dist.: Ont, Que

Records: 1. Webster 1967b (Ont, Que); 2. Ko 1972 (Ont)

*Cercopithifilaria leporinus* Bartlett, 1983

Site: subcutaneous tissue

Host: *Lepus americanus*

Dist.: Alta, Ont

Record: Bartlett 1983b

*Dipetalonema mephitis* Webster and Beaugard, 1964

Site: subcutaneous tissue

Host: *Mephitis mephitis*

Dist.: Que

Records: Webster and Beaugard 1964, 1965

*Dipetalonema mephitis* Webster and Beaugard, 1964

(microfilaria)

Syn.: *Microfilaria mephitis* Webster and Beaugard, 1964

Site: blood, brain

Hosts: *Mephitis mephitis*

Dist.: Ont, Que

Records: Webster and Beaugard 1964 (Que), 1965 (Que); Webster 1966a (Ont)

*Dipetalonema sprengi* Anderson, 1953

Site: peritoneal cavity

Host: *Castor canadensis*

Dist.: Ont

Records: Anderson 1953; Addison 1973

*Dipetalonema sprengi* Anderson, 1953

(microfilaria)

Site: blood

Host: *Castor canadensis*

Dist.: Ont

Record: Addison 1973

*Dirofilaria scapiceps* (Leidy, 1886) York and Maplestone, 1926

Syn.: *Filaria scapiceps* Leidy, 1886

Sites: subcutaneous fascia of the shoulder and lumbar regions; intermuscular fascia of the hind legs

Hosts: *Lepus americanus* (2,3,4,5)

*L. a. struthopus* (1)

*L. capensis* (2)

*Oryctolagus cuniculus* (2,3)

*Sylvilagus floridanus* (2,3,4)

Dist.: Alta, NB, NWT, Ont

Records: 1. Maltais and Ouellette 1979 (NB); 2. Bartlett 1983a (Alta, NWT, Ont), 3. 1984a exp (Ont), 4. 1984b (Alta, Ont); 5. Keith et al. 1985 (Alta)

*Dirofilaria ursi* Yamaguti, 1941

Sites: superficial abdominal fascia, adipose tissue of inguinal region, oesophagus

Hosts: *Ursus americanus* (4,5,6)

*U. a. americanus* (2,5)

*U. arctos* (3)

Dist.: Alta, BC, Ont, Que, YT

Records: 1. Anderson 1952 (Ont); 2. Choquette 1952 (Ont, Que); 3. Choquette et al. 1969 (BC, YT); 4. Frechette and Rau 1977 (Que); 5. Addison et al. 1978 (Ont); 6. Dies 1979 (Alta)

*Dirofilaria ursi* Yamaguti, 1941

(microfilaria)

Site: blood

Host: *Ursus americanus*

Dist.: Ont

Record: Addison et al. 1978; Addison 1980

*Elaeophora schneideri* Wehr and Dikmans, 1935

Site: large arteries

Host: *Odocoileus hemionus columbianus*

Dist.: BC

Record: Cowan 1946, Cowan 1951

*Litomosoides carinii* (Travassos, 1919) Vaz, 1934

Site: coelom

Host: *Thomomys talpoides*

Dist.: Alta

Record: Lubinsky 1957

*Litomosoides guiterasi* (Vigueras, 1934)

Sandground, 1934

Site: digestive tract

Host: *Eptesicus fuscus*

Dist.: BC

Record: Webster and Casey 1973

*Onchocerca cervipedis* Wehr and Dikmans, 1935  
Syn.: *Wehrdikmansia cervipedis* (Wehr and Dikmans, 1935) Caballero, 1945  
Site: subcutaneous connective tissue  
Hosts: *Alces alces* (2,3,6,7,8)  
*A. a. andersoni* (5)  
*Odocoileus hemionus columbianus* (2)  
*O. h. hemionus* (2)  
*O. virginianus* (4)  
Dist.: Alta, BC, Ont  
Records: 1. Cowan 1946 (BC), 2. 1951 (BC); 3. Ritcey and Edwards 1958 (BC); 4. Anderson 1962b (Ont); 5. Barrett 1972 (Alta); 6. Samuel 1972b (Alta); 7. Samuel et al. 1976 (Alta); 8. Pledger et al. 1980 (Alta)

*Onchocerca* sp.  
Site: leg muscle  
Host: *Rangifer tarandus caribou*  
Dist.: BC  
Record: Low 1976

*Rumenfilaria andersoni* Lankester and Snider, 1982  
Site: subserosal veins of the rumen  
Host: *Alces alces*  
Dist.: Ont  
Record: Lankester and Snider 1982

*Setaria cervi* (Dujardin, 1845) Becklund and Walker, 1964  
Site: peritoneal cavity  
Hosts: *Cervus elaphus* (4)  
*Odocoileus hemionus columbianus* (2,3)  
*Rangifer tarandus* (1)  
Dist.: Alta, BC, Sask  
Records: 1. Erickson and Highby 1942 (Sask); 2. Cowan 1946 (BC), 3. 1951 (BC); 4. Flook and Stenton 1969 (Alta)

*Setaria labiatopapillosa* (Perroncito, 1882) Railliet and Henry, 1911  
Site: peritoneal cavity  
Hosts: *Alces alces* (3)  
*Bison bison* (1,2)  
Dist.: Alta  
Records: 1. Cameron 1923; 2. Becklund and Walker 1969; 3. Samuel et al. 1976

*Setaria tundra* Isaichikov and Raevskays, 1928  
Site: body cavity  
Host: *Odocoileus virginianus*  
Dist.: Ont  
Record: Anderson 1962b

*Setaria yehi* Desset, 1966  
Site: peritoneal cavity  
Hosts: *Alces alces* (2)  
*Odocoileus hemionus* (1)  
*Rangifer tarandus* (1)  
Dist.: Alta, BC, NWT  
Records: 1. Becklund and Walker 1969 (BC, NWT); 2. Samuel et al. 1976 (Alta)

*Setaria* spp.  
Site: intestine  
Hosts: *Alces alces* (1,3,4)  
*A. a. andersoni* (2)  
Dist.: Alta, Man, Que  
Records: 1. Peterson 1955 (Que); 2. Barrett 1972 (Alta); 3. Crichton 1979 (Man), 4. 1980 (Man)

## SUPERFAMILY GNATHOSTOMATOIDEA FAMILY GNATHOSTOMATIDAE

*Gnathostoma miyazakii* Anderson, 1964  
Site: kidneys  
Host: *Lutra c. canadensis*  
Dist.: Ont  
Record: Anderson 1964a

## SUPERFAMILY PHYSALOPTEROIDEA FAMILY PHYSALOPTERIDAE

*Physaloptera bispiculata* Vaz and Pereira, 1955  
Site: stomach  
Host: *Ochotona princeps*  
Dist.: Alta  
Record: Lubinsky 1957

*Physaloptera maxillaris* Molin, 1860  
Site: digestive tract  
Host: *Mephitis mephitis*  
Dist.: Ont, Que  
Records: Choquette 1951 (Que); Webster and Beauregard 1965 (Que); Lincoln and Anderson 1973 (Ont); Cawthorn and Anderson 1976a (Ont), 1976b (Ont)

*Physaloptera praeputialis* Linstow, 1899  
Site: stomach  
Host: *Lynx canadensis*  
Dist.: Alta, NWT  
Record: Zyll de Jong 1966

*Physaloptera rara* Hall and Wigdor, 1918

Site: intestine  
Host: *Ursus americanus*  
Dist.: Ont  
Record: Addison et al. 1978 capt.

*Physaloptera spinicauda* McLeod, 1933

Site: stomach  
Hosts: *Spermophilus franklinii* (1,3)  
*S. richardsonii* (3)  
*S. tridecemlineatus* (1,2,3)  
Dist.: Alta, Man, Sask  
Records: 1. McLeod 1933 (Man); 2. Lubinsky 1957 (Alta); 3. McGee 1980 (Sask)

*Physaloptera spinicauda* McLeod, 1933

(larva)

Sites: stomach, duodenum  
Hosts: *Spermophilus franklinii*  
*S. richardsonii*  
*S. tridecemlineatus*  
Dist.: Sask  
Record: McGee 1980

*Physaloptera* spp.

Site: stomach, intestine  
Hosts: *Canis latrans* (7)  
*Gulo gulo* (6)  
*Lynx canadensis* (2)  
*Martes pennanti* (8)  
*Mephitis mephitis* (4)  
*Procyon lotor* (1,2,3)  
*P. l. hirtus* (9)  
*Tamiasciurus hudsonicus* (5)  
*Taxidea taxus* (3)  
Dist.: Alta, Man, NWT, Ont, Que, Sask  
Records: 1. Anonymous 1930 (Ont); 2. Law and Kennedy 1932 (Ont); 3. Swales 1933b (Alta, Que); 4. Webster and Wolfgang 1956 (Que); 5. Mahrt and Chai 1972 (Alta); 6. Addison and Boles 1978 (NWT); 7. Samuel, Ramalingam et al. 1978 (Alta); 8. Dick and Leonard 1979 (Man); 9. Hoberg and McGee 1982 (Sask)  
Remarks: Webster and Wolfgang (1956) believed their *Physaloptera* sp. was probably *P. maxillaris*.

## SUPERFAMILY RICTULARIOIDEA

### FAMILY RICTULARIIDAE

*Rictularia citelli* McLeod, 1933

Sites: stomach, duodenum  
Hosts: *Spermophilus franklinii*  
*S. tridecemlineatus*  
Dist.: Man  
Record: McLeod 1933

*Rictularia coloradensis* Hall, 1916

Site: stomach  
Host: *Microtus pennsylvanicus*  
Dist.: Alta  
Record: Lubinsky 1957

*Rictularia lucifugus* Douvres, 1956

Site: digestive tract  
Hosts: *Eptesicus fuscus*  
*Myotis lucifugus*  
*M. volans longicrus*  
Dist.: BC  
Record: Webster and Casey 1973

*Rictularia* sp.

Site: digestive tract  
Host: *Myotis lucifugus*  
Dist.: BC  
Record: Webster and Casey 1973

## SUPERFAMILY SPIUROIDEA

### FAMILY SPIROCERCIDAE

*Cylicospirura subaequalis* (Molin, 1860)

Site: stomach  
Host: *Lynx canadensis*  
Dist.: Alta, Nfld, NWT  
Records: Zyll de Jong 1966 (Alta, NWT); Threlfall 1969 (Nfld); Pence et al. 1978 (Alta)

*Spirocerca arctica* Petrov, 1927

Site: stomach  
Host: *Canis lupus*  
Dist.: NWT  
Record: Choquette et al. 1973

*Spirocerca lupi* (Rudolphi, 1809) Railliet and Henry, 1911

Sites: esophagus, stomach  
Hosts: *Canis lupus*  
Dist.: NWT  
Record: Choquette et al. 1973

### FAMILY SPIRURIDAE

*Protospirura ascaroidea* Hall, 1916

Site: stomach  
Host: *Thomomys talpoides*  
Dist.: Alta  
Record: Lubinsky 1957



*Protospirura muris* (Gmelin, 1780)  
Syn.: *Mastophorus muris* (Gmelin, 1790)  
Site: stomach, liver  
Hosts: *Clethrionomys gapperi* (2,4)  
*Peromyscus maniculatus* (3)  
*Rattus norvegicus* (1)  
*Zapus hudsonius* (2)  
Dist.: Alta, Nfld, Que  
Record: 1. Firlotte 1948 (Que); 2. Schad 1954 (Nfld), 3. 1956 (Que); 4. Lubinsky 1957 (Alta)

*Spirura infundibuliformis* McLeod, 1933  
Sites: stomach, esophagus  
Hosts: *Spermophilus franklinii* (2)  
*S. richardsonii* (1,2)  
*S. tridecemlineatus* (1,2)  
Dist.: Man, Sask  
Records: 1. McLeod 1933 (Man); 2. McGee 1980 (Sask)

*Spirura infundibuliformis* McLeod, 1933 (larva)  
Sites: stomach, esophagus  
Hosts: *Spermophilus franklinii*  
*S. richardsonii*  
*S. tridecemlineatus*  
Dist.: Sask  
Record: McGee 1980

**ORDER STRONGYLIDA**  
**SUPERFAMILY**  
**ANCYLOSTOMATOIDEA**  
**FAMILY ANCYLOSTOMATIDAE**

*Ancylostoma caninum* Ercolani, 1854  
Site: intestine  
Hosts: *Canis latrans* (2)  
*Vulpes vulpes* (1)  
Dist.: Alta, Que  
Records: 1. Swales 1933b (Que); 2. Holmes and Podesta 1968 (Alta)

*Arthrocephalus lotoris* (Schwartz, 1925) Chandler, 1942  
Site: digestive tract  
Host: *Mephitis mephitis*  
Dist.: Que  
Record: Choquette 1951

*Placoconus lotoris* (Schwartz, 1925) Webster, 1956  
Site: intestine  
Hosts: *Mephitis mephitis* (1)  
*Procyon lotor* (2,3)  
Dist.: Que  
Records: 1. Webster and Wolfgang 1956; 2. Balasingam 1964a exp., 3. 1964b exp.

*Uncinaria yukonensis* (Wolfgang, 1956)  
Site: small intestine  
Hosts: *Ursus americanus* (1,3)  
*U. arctos* (2)  
Dist.: NWT, Que, YT  
Records: 1. Wolfgang 1956 (YT); 2. Choquette et al. 1969 (NWT, YT); 3. Frechette and Rau 1977 (Que)

Hookworm egg  
Site: feces  
Host: *Ursus americanus*  
Dist.: Que  
Records: Frechette and Rau 1977; Juniper 1978  
Remarks: Frechette and Rau (1977) believed their material was probably *Uncinaria yukonensis*.

**SUPERFAMILY**  
**METASTRONGYLOIDEA**  
**FAMILY ANGIOSTRONGYLIDAE**

*Aelurostrongylus pridhami* Anderson, 1962  
Site: lungs  
Hosts: *Mustela erminea* (4)  
*M. vison* (2,3,4)  
*M. v. vison* (1)  
Dist.: Nfld, Ont  
Records: 1. Anderson 1962a (Ont); 2. Stockdale 1970a exp. (Ont), 3. 1970b exp. (Ont); 4. Jennings et al. 1982 (Nfld)

*Andersonstrongylus captivensis* Webster, 1978  
Site: lungs  
Host: *Mephitis mephitis*  
Dist.: Ont  
Record: Webster 1980 exp.

*Angiostrongylus vasorum* (Baillet, 1866) Kamensky, 1905  
Site: unspecified  
Host: *Vulpes vulpes*  
Dist.: Nfld  
Record: Smith and Threlfall 1973

*Sobolevinygylus* sp.

Site: lungs

Host: *Martes pennanti*

Dist.: Ont

Record: Craig and Borecky 1976

*Trilobostrogylus bioccai* Anderson, 1963

Site: lungs

Hosts: *Martes pennanti* (2)

*M. p. pennanti* (1)

Dist.: Ont

Records: 1. Anderson 1963b; 2. Craig and Borecky 1976

FAMILY CRENOSOMATIDAE

*Crenosoma decoratum* (Creplin, 1847) Stoss, 1898

Sites: lungs and trachea

Host: *Vulpes vulpes*

Dist.: Ont

Record: Law and Kennedy 1932

*Crenosoma goblei* Dougherty, 1945

Site: bronchi, bronchioles

Host: *Procyon lotor*

Dist.: Ont

Record: Craig and Anderson 1972

*Crenosoma hermani* Anderson, 1962

Site: bronchi

Host: *Mustela v. vison*

Dist.: Ont

Record: Anderson 1962a; Craig and Anderson 1972

*Crenosoma mephitidis* Hobmaier, 1941

Sites: bronchi, bronchioles, lungs

Host: *Mephitis mephitis*

Dist.: Ont, Que

Records: Webster 1964 (Que); Webster and Beaugard 1965 (Que); Craig and Anderson 1972 (Ont); Stockdale et al. 1974 exp. (Ont)

*Crenosoma petrowi* Morozov, 1939

Sites: bronchi, bronchioles

Hosts: *Martes pennanti* (2)

*Taxidea taxus* (1)

*Ursus americanus* (3,4)

Dist.: Ont

Records: 1. Craig and Anderson 1972; 2. Craig and Borecky 1976; 3. Addison 1978; 4. Addison et al. 1978

*Crenosoma potos* Buckley, 1930

Site: lungs

Host: *Ursus americanus*

Dist.: Ont

Record: Addison 1978; Addison et al. 1978

*Crenosoma vulpis* (Dujardin, 1844) Railliet, 1915

Site: lungs

Hosts: *Ursus americanus* (4,5)

*Vulpes vulpes* (1,2,3,6)

Dist.: NB, Nfld, NS, Ont

Records: 1. Threlfall 1969 (Nfld); 2. Craig and Anderson 1972 (Ont); 3. Smith and Threlfall 1973 (Nfld); 4. Addison 1978 (Ont); 5. Addison et al. 1978 (Ont); 6. Smith 1978b (NB, NS)

*Crenosoma* spp.

Site: lungs

Hosts: *Ursus americanus* (2)

Red fox (1)

Dist.: Ont

Records: 1. Law and Secord 1931; 2. Addison et al. 1978

*Troglostrogylus wilsoni* (Stough, 1953)

Sarmiento and Stough, 1956

Site: lungs

Host: *Lynx canadensis*

Dist.: Alta, NWT

Record: Zyll de Jong 1966

FAMILY FILAROIDIDAE

*Filaroides canadensis* Anderson, 1963

Site: lungs

Host: *Lutra c. canadensis*

Dist.: Ont

Record: Anderson 1963b

*Filaroides martis* (Werner, 1782) Dougherty, 1943

Syn.: *Filaroides bronchialis* (Gmelin, 1790)

Sites: bronchi, trachea

Hosts: *Mephitis mephitis* (3)

*Mustela vison* (1,5,6,7)

*M. v. vison* (2)

Mink (4)

Dist.: Ont, Que

Records: 1. Law and Kennedy 1932 (Ont); 2. Anderson 1962a (Ont); 3. Webster and Beaugard 1965 (Que); 4. Fyvie 1966 (Ont); 5. Stockdale 1970b exp. (Ont); 6. Stockdale and Anderson 1970 exp. (Ont); 7. Ko and Anderson 1972 exp. (Ont)

*Filaroides mephitis* Webster, 1967

Site: lungs  
Host: *Mephitis mephitis*  
Dist.: Ont  
Record: Webster 1967a

*Oslerus osleri* (Cobbold, 1879) Anderson, Chabaud, and Willmott, 1978

Sites: lungs, trachea  
Hosts: *Canis latrans* (1,2,3)  
*C. lupus* (1,3)  
Coyote x Dog (1)  
Dist.: Alta, Man, Ont  
Records: 1. Fyvie 1966 (Ont); 2. Holmes and Podesta 1968 (Alta); 3. Samuel, Ramalingam et al. 1978 (Man)

*Oslerus* sp.

Site: pulmonary veins  
Host: *Mustela vison*  
Dist.: Ont  
Record: Anonymous 1930

FAMILY PROTOSTRONGYLIDAE

*Elaphostrongylus cervi* Cameron, 1931

Sites: beneath skin, fascia of thoracic musculature  
Hosts: *Alces alces* (1)  
*Rangifer tarandus* (1)  
*R. t. caribou* (2)  
Dist.: Nfld, Ont  
Records: 1. Lankester 1977 exp. (Ont); 2. Lankester and Northcott 1979 (Nfld)

*Elaphostrongylus cervi* Cameron, 1931  
(larva)

Sites: feces, trachea  
Hosts: *Rangifer tarandus caribou*  
*R. t. groenlandicus*  
Dist.: Man, Nfld  
Record: Lankester and Northcott 1979

*Elaphostrongylus odocoilei* Hobmaier and Hobmaier, 1934

Sites: meninges, subarachnoid space  
Host: *Odocoileus virginianus borealis*  
Dist.: Ont  
Record: Anderson 1956

*Orthostrongylus macrotis* (Dikmans, 1931)  
Dougherty and Goble, 1946

Site: lungs  
Hosts: *Alces alces*  
*Cervus elaphus*  
Dist.: Alta  
Record: Stock and Barrett 1983

*Parelaphostrongylus andersoni* Prestwood, 1972

Sites: skeletal muscles of thigh and dorsum  
Host: *Odocoileus virginianus*  
Dist.: BC  
Record: Pybus and Samuel 1981 exp.

*Parelaphostrongylus andersoni* Prestwood, 1972  
(larva)

Site: feces  
Host: *Odocoileus virginianus*  
Dist.: BC  
Records: Pybus and Samuel 1981; Ballantyne and Samuel 1984

*Parelaphostrongylus odocoilei* (Hobmaier and Hobmaier, 1934)

Boev and Schults, 1950

Sites: skeletal muscles, larvae in feces  
Hosts: *Alces alces* (3 exp.)  
*A. a. andersoni* (1)  
*Oreamnos americana* (5)  
*Odocoileus hemionus* (4)  
*O. h. columbianus* (1,5,6)  
*O. h. hemionus* (1,2,3,6)  
*O. virginianus* / *O. hemionus* hybrid (5)

Dist.: Alta, BC  
Records: 1. Platt and Samuel 1978a exp. (Alta), 2. 1978b exp.; 3. Pybus and Samuel 1980 (Alta); 4. Ballantyne and Samuel 1984 (BC); 5. Pybus, Foreyt, and Samuel 1984 (Alta, BC); 6. Shostak and Samuel 1984 exp. (Alta)

*Parelaphostrongylus tenuis* (Dougherty, 1945)

Pryadko and Boev, 1971

Syn.: *Pneumostrongylus tenuis*  
Dougherty, 1945  
Sites: piaarachnoid and meninges of brain  
Hosts: *Alces alces* (2,3,12)  
*A. a. americana* (4)  
*Cervus elaphus* (6)  
*Odocoileus h. hemionus* (6)  
*O. virginianus* (3,7,10,11)  
*O. v. borealis* (1)  
*Rangifer t. tarandus* (9)  
*R. t. terraenovae* (8)  
Guinea pig (*Cavia porcellus*) (5)

Dist.: Man, NB, NS, Ont, Que, Sask  
Records: 1. Anderson 1963a (Ont), 2. 1964b exp. (Ont); 3. Smith et al. 1964 (NB,NS); 4. Anderson 1965a (Ont); 5. Anderson and Strelive 1966a (Ont); 6. Anderson et al. 1966 exp. (Ont); 7. Anderson and Strelive 1967 exp. (Ont); 8. 1968 exp. (Ont); 9. Anderson 1971b (Ont); 10. Bindernagel and Anderson 1972a (Man, Ont, Que, Sask), 11. 1972b (Man, Ont, Que, Sask); 12. Lankester 1972 (Man)



*Parelaphostrongylus tenuis* (Dougherty, 1945)  
Pryadko and Boev, 1971  
(larva)

Site: feces

Hosts: *Alces alces* (1)

*Odocoileus virginianus* (1)

*O. v. dacotensis* (3)

*Rangifer tarandus caribou* (2)

Dist.: Alta, NS, Ont

Records: 1. Saunders 1973 (Ont); 2. Dauphine, Jr. 1975 (NS); 3. Shostak and Samuel 1984 exp. (Alta)

*Parelaphostrongylus* sp.  
(larva)

Site: feces

Host: *Odocoileus hemionus*

Dist.: Alta

Record: Samuel and Holmes 1974

*Protostrongylus boughtoni* Goble and Dougherty, 1943

Sites: lungs, bronchi, bronchioles

Hosts: *Lepus americanus* (1,2,4,5)

*L. a. americanus* (3)

*Oryctolagus cuniculus* lab. rabbit (3)

Dist.: Alta, Man, NB, Ont

Records: 1. Boughton 1932 (Man); 2. Goble and Dougherty 1943 (Man, NB, Ont); 3. Kralka and Samuel 1984 exp. (Alta); 4. Keith et al. 1985 (Alta); 5. Kralka 1985 (Que)

*Protostrongylus macrotis* Dikmans, 1931

Site: lungs

Host: *Alces alces*

Dist.: Alta

Record: Samuel et al. 1976

*Protostrongylus rushi* Dickmans, 1937

Site: lungs

Hosts: *Oreamnos americanus* (2)

*Ovis c. canadensis* (1,2)

Dist.: Alta, BC

Records: 1. Uhazy et al. 1973; 2. Samuel, Hall et al. 1978

*Protostrongylus stilesi* Dickmans, 1931

Site: lungs

Hosts: *Oreamnos americanus* (1,2,5,6)

*Ovis canadensis* (1,3)

*O. c. canadensis* (2,4,5)

Dist.: Alta, BC

Records: 1. Cowan 1944 (Alta), 2. 1951 (Alta, BC); 3. Hudson et al. 1970 (BC?); 4. Uhazy et

al. 1973 (Alta, BC); 5. Samuel, Hall et al. 1978 (Alta); 6. Pybus, Foreyt, and Samuel 1984 (Alta)

*Protostrongylus* sp.

Site: lungs

Host: *Oreamnos americanus*

Dist.: Alta

Record: Kerr and Holmes 1966

Remarks: This parasite was reported by Kerr and Holmes (1966) as probably being *Protostrongylus stilesi*.

*Protostrongylus* sp. larva

Site: feces, liver

Hosts: *Ovis canadensis californiana* (1)

*O. c. canadensis* (2,4)

*Rangifer tarandus caribou* (3)

Dist.: Alta, BC, Man, Ont

Records: 1. Blood 1963 (BC); 2. Uhazy et al. 1973 (Alta, BC); 3. Lankester et al. 1976 (Man, Ont); 4. Gates and Samuel 1977 (Alta)

*Varestrongylus alpenae* (Dikmans, 1935)  
Dougherty, 1945

Site: lungs

Hosts: *Odocoileus h. hemionus*

*O. virginianus*

Dist.: Sask

Records: Gray et al. 1985

#### FAMILY SKRJABINGYLIDAE

*Skrjablingylus chitwoodorum* Hill, 1939

Site: nasal sinuses

Hosts: *Mephitis mephitis* (2)

*Spilogale putorius gracilis* (1)

Dist.: BC, Ont

Records: 1. Cowan 1942 (BC); 2. Lankester and Anderson 1971 exp. (Ont)

*Skrjablingylus lutrae* Lankester and Crichton, 1972

Site: frontal sinuses

Host: *Lutra canadensis*

Dist.: Ont

Record: Lankester and Crichton 1972

*Skrjablingylus magnus* Webster, 1965

Site: frontal sinuses

Host: *Mephitis mephitis*

Dist.: Que

Record: Webster 1965

*Skrjabinogylus nasicola* (Leukart, 1842) Petrov, 1927

Site: nasal sinus

Hosts: *Mustela erminea* (2,5)

*M. e. anguinae* (1)

*M. e. richardsonii* (4)

*M. frenata longicauda* (4)

*M. vison* (3)

Dist.: BC, Man, Nfld, Ont

Records: 1. Swales 1938 (BC); 2. Cowan 1942

(BC); 3. Lankester and Anderson 1971 exp.

(Ont); 4. Gamble and Riewe 1982 (Man); 5.

Jennings et al. 1982 (Nfld)

*Skrjabinogylus* sp.

Site: unspecified

Host: *Mephitis mephitis*

Dist.: Que

Record: Webster and Beauregard 1965

#### Unidentified Metastrongyloidea

Metastrongyloidea gen. spp. (larva)

Site: liver

Hosts: *Blarina brevicauda*

*Peromyscus maniculatus*

*Sorex fumeus*

*Tamias striatus*

Dist.: Ont

Record: Lankester and Anderson 1966

## SUPERFAMILY STRONGYLOIDEA

### FAMILY CHABERTIIDAE

*Castorstrongylus castoris* Chapin, 1925

Sites: caecum, colon, stomach

Host: *Castor canadensis*

Dist.: Alta, NB, Nfld

Records: Choquette and Pimlott 1956 (Nfld);

Smith 1967 (NB); Threlfall 1969 (Nfld); Bush

and Samuel 1981 (Alta)

*Oesophagostomum venulosum* (Rudolphi, 1809)

Railliet and Henry, 1913

Site: caecum

Hosts: *Odocoileus hemionus columbianus*

(1,2)

*O. virginianus* (3)

Dist.: BC, Ont

Records: 1. Cowan 1946 (BC), 2. 1951 (BC); 3.

Baker and Pursglove 1976 (Ont)

*Oesophagostomum* sp.

Site: intestine

Host: *Bison bison*

Dist.: Alta

Record: Cameron 1923

## SUPERFAMILY

## TRICHOSTRONGYLOIDEA

### FAMILY AMPHIBIOPHILIDAE

*Graphidiella ochotonae* Olsen, 1948

Site: gastrointestinal tract

Host: *Ochotona princeps*

Dist.: Alta

Record: Hobbs 1980

### FAMILY DICTYOCAULIDAE

*Dictyocaulus filaria* (Rudolphi, 1809) Railliet and Henry, 1907

Site: lungs

Host: *Bison bison*

Dist.: Alta

Record: Cameron 1923

*Dictyocaulus hadweni* Chapin, 1925

Site: lungs

Hosts: *Alces alces* (2,3,4)

*Bison bison* (1)

Dist.: Alta, Nfld

Records: 1. Chapin 1925 (Alta); 2. Benson 1958

(Alta); 3. Threlfall 1967 (Nfld), 4. 1969 (Nfld)

Remarks: Dikmans (1936), Olsen and

Fenstermacher (1942), and Threlfall (1967)

consider this species a synonym of *Dictyocaulus viviparus*.

*Dictyocaulus viviparus* (Bloch, 1782) Railliet and Henry, 1907

Sites: lungs, bronchioles

Hosts: *Alces alces* (4,7,12,15,16)

*A. a. andersoni* (13)

*Cervus elaphus* (2,4,11,16)

*Odocoileus hemionus* (2)

*O. h. columbianus* (3,4)

*O. h. hemionus* (4)

*O. virginianus* (10)

*Ovibos moschatus* (6,8,14)

*Ovis canadensis* (2)

*O. c. canadensis* (4)

*Rangifer tarandus* (9)

*R. t. greonlandicus* (5)

Dist.: Alta, BC, NWT, Ont, Que, Sask

Records: 1. Erickson and Highby 1942 (Sask);

2. Cowan 1944 (Alta), 3. 1946 (BC), 4. 1951

(Alta, BC); 5. Banfield 1954 (NWT); 6. Durrell

and Bolton 1957 (NWT); 7. Benson 1958 (Alta); 8. Gibbs and Tener 1958 (NWT); 9. Gibbs 1960 (NWT?); 10. Anderson 1962b (Ont); 11. Flook and Stenton 1969 (Alta, BC); 12. Gupta and Gibbs 1971 (Que); 13. Barrett 1972 (Alta); 14. Samuel and Gray 1974 (NWT); 15. Samuel et al. 1976 (Alta); 16. Stock and Barrett 1983 (Alta)

*Dictyocaulus* spp.

Sites: lung alveoli, bronchioles  
Hosts: *Rangifer tarandus caribou* (1)  
*Alces alces* (2,3)  
Dist.: BC, Man  
Records: 1. Low 1976 (BC); 2. Crichton 1979 (Man), 3. 1980 (Man)  
Remarks: Low (1976) believed his *Dictyocaulus* sp. was probably *D. viviparus*.

FAMILY HELIGMOSOMIDAE

*Citellinema bifurcatum* Hall, 1916

Syn.: *Warrenius bifurcatus* (Hall, 1916)  
Sleggs, 1925  
Site: intestine  
Hosts: *Eutamias minimus* (5)  
*Spermophilus franklinii* (5)  
*S. richardsonii* (1,2,3,5)  
*S. tridecemlineatus* (5)  
*Tamiasciurus hudsonicus* (4,5)  
*T. h. hudsonicus* (3)  
Dist.: Alta, Man, Sask  
Records: 1. Sleggs 1925 (Sask); 2. McLeod 1933 (Man, Sask); 3. Rausch and Tiner 1948 (Man); 4. Mahrt and Chai 1972 (Alta); 5. McGee 1980 (Sask)

*Heligmosomoides polygyrus* Hall, 1916

Syn.: *Nematospiroides dubius* Baylis, 1926  
Site: small intestine  
Hosts: *Microtus chrotorrhinus* (1)  
*Phenacomys intermedius* (2)  
Dist.: Alta, Nfld, Que  
Records: 1. Schad 1954 (Nfld, Que); 2. Lubinsky 1957 (Alta)

*Heligmosomum carolinensis* (Dikmans, 1940)  
Skrjabin, 1971

Syn: *Nematospiroides carolinensis*  
Dikmans, 1940  
Site: unspecified  
Hosts: *Clethrionomys gapperi* (1)  
*Ondatra zibethicus* (2)  
Dist.: Man, Nfld, Que  
Records: 1. Schad 1954 (Nfld, Que); 2. McKenzie and Welch 1979 (Man)

*Heligmosomum hudsonius* Cameron, 1937

Site: unspecified  
Host: *Dicrostonyx hudsonius*  
Dist.: Nfld, Que  
Record: Schad 1954

*Heligmosomum muris* Yokogawa, 1920

Syn.: *Nippostrongylus muris* (Yokogawa, 1920)  
Site: intestine  
Host: *Rattus norvegicus*  
Dist.: Que  
Record: Firlotte 1948

FAMILY MOLINEIDAE

*Molineus* sp.

Site: unspecified  
Host: *Martes pennanti*  
Dist.: Man  
Record: Dick and Leonard 1979

*Murielus harpescpiculus* Dickmans, 1939

Site: gastrointestinal tract  
Host: *Ochotona princeps*  
Dist.: Alta  
Record: Hobbs 1980

*Nematodirella alcidis* (Dikmans, 1935) Ivaskin, 1954

Site: small intestine  
Hosts: *Alces alces*  
*Cervus elaphus*  
Dist.: Alta  
Record: Stock and Barrett 1983

*Nematodirella longispiculata* Yorke and Maplestone, 1926

Site: small intestine  
Hosts: *Alces alces* (1,2 Alta,5,6,10)  
*A. a. andersoni* (7)  
*Cervus elaphus* (1)  
*Odocoileus hemionus columbianus* (2)  
*Ovibos moschatus* (3,8)  
*Rangifer tarandus* (4)  
*R. t. caribou* (9)

Dist.: Alta, BC, Nfld, NWT  
Records: 1. Cowan 1944 (Alta), 2. 1951 (Alta, BC); 3. Gibbs and Tener 1958 (NWT); 4. Gibbs 1960 (NWT?); 5. Threlfall 1967 (Nfld), 6. 1969 (Nfld); 7. Barrett 1972 (Alta); 8. Samuel and Gray 1974 (NWT); 9. Low 1976 (BC); 10. Samuel et al. 1976 (Alta)  
Remarks: Low (1976) reported it as *Nematodirella longissimespiculata* (*N. l. longispiculata*).



- Nematodirella longispiculata antilocaprae*  
Dikmans, 1935  
Site: intestine  
Host: *Odocoileus hemionus columbianus*  
Dist.: BC  
Record: Cowan 1946
- Nematodirella* sp.  
Site: feces  
Host: *Ovibos moschatus*  
Dist.: Alta, NWT  
Record: Samuel and Gray 1974 (Alta capt., NWT)
- Nematodirus archari* Sokolova, 1948  
Site: small intestine  
Host: *Ovis c. canadensis*  
Dist.: Alta  
Record: Samuel, Hall et al. 1978
- Nematodirus davtiani* Grigoryan, 1949  
Site: small intestine  
Hosts: *Oreamnos americanus*  
*Ovis c. canadensis*  
Dist.: Alta  
Record: Samuel, Hall et al. 1978
- Nematodirus filicollis* Rudolphi, 1802  
Site: small intestine  
Hosts: *Odocoileus hemionus columbianus* (2,3)  
*Oreamnos americanus* (1,3)  
*Ovis canadensis* (1)  
*O. c. canadensis* (3)  
Dist.: Alta, BC  
Records: 1. Cowan 1944 (Alta), 2. 1946 (BC), 3. 1951 (Alta, BC)
- Nematodirus helvetianus* May, 1920  
Site: small intestine  
Hosts: *Cervus elaphus* (4)  
*Oreamnos americanus* (2)  
*Ovibos moschatus* (1,3)  
Dist.: Alta, NWT  
Records: 1. Samuel and Gray 1974 (NWT); 2. Samuel, Hall et al. 1978 (Alta); 3. Webster and Rowell 1980 (NWT); 4. Stock and Barrett 1983 (Alta)
- Nematodirus maculosus* Becklund, 1965  
Site: small intestine  
Host: *Oreamnos americanus*  
Dist.: Alta, BC  
Records: Becklund 1965 (Alta); Kerr and Holmes 1966 (Alta); Samuel, Hall et al. 1978 (Alta, BC)
- Nematodirus odocoilei* Becklund and Walker, 1967  
Site: small intestine  
Hosts: *Odocoileus hemionus* (1)  
*O. virginianus* (2)  
Dist.: BC, Que  
Records: 1. Becklund and Walker 1967 (BC); 2. Webster and MacKay 1969 (Que)
- Nematodirus oiratianus* Raevskaia, 1929  
Site: small intestine  
Host: *Ovis c. canadensis*  
Dist.: Alta  
Record: Samuel, Hall et al. 1978
- Nematodirus spathiger* (Railliet, 1896) Railliet and Henry, 1909  
Site: small intestine  
Host: *Ovis canadensis canadensis*  
Dist.: Alta  
Record: Samuel, Hall et al. 1978
- Nematodirus triangularis* Boughton, 1932  
Site: duodenum  
Host: *Lepus americanus*  
Dist.: Man, Nfld  
Record: Boughton 1932 (Man); Smith and Threlfall 1973 (Nfld)
- Nematodirus* spp.  
Sites: small intestine, feces  
Hosts: *Alces alces* (2)  
*Oreamnos americanus* (5)  
*Ovibos moschatus* (3)  
*Ovis c. canadensis* (1,5)  
*Rangifer tarandus caribou* (4)  
Dist.: Alta, BC, NWT, Ont, Que  
Records: 1. Cowan 1942 (BC); 2. Peterson 1955 (Ont, Que); 3. Samuel and Gray 1974 (NWT, Que capt., Alta capt.); 4. Low 1976 (BC); 5. Samuel, Hall et al. 1978 (Alta, BC)
- Nematodirus* spp. larva  
Site: feces  
Host: *Ovis canadensis californianus*  
Dist.: BC  
Record: Blood 1963

#### FAMILY ORNITHOSTRONGYLIDAE

- Allintoshius nycticeius* Chitwood, 1937  
Site: digestive tract  
Host: *Myotis volans longicrus*  
Dist.: BC  
Record: Webster and Casey 1973

FAMILY TRICHOSTRONGYLIDAE

*Cooperia oncophora* (Railliet, 1898) Ransom, 1907

Site: small intestine

Host: *Cervus elaphus*

Dist.: Alta

Record: Stock and Barrett 1983

*Haemonchus contortus* (Rudolphi, 1803) Cobbold, 1898

Site: abomasum

Hosts: *Odocoileus hemionus columbianus* (1)

*Ovibos moschatus* (2,3)

Dist.: Alta, BC, NWT

Records: 1. Cowan 1951 capt. (BC); 2. Durrell and Bolton 1957 (NWT); 3. MacDonald et al. 1976 capt. (Alta)

*Haemonchus ostertagi* [SIC]

Site: intestine

Host: *Bison bison*

Dist.: Alta

Record: Cameron 1923

*Haemonchus placei* (Place, 1893)

Site: abomasum

Host: *Ovibos moschatus*

Dist.: NWT

Record: Durrell and Bolton 1957

*Marshallagia marshalli* (Ransom, 1907) Orlov, 1933

Sites: small intestine, abomasum

Hosts: *Oreamnos americanus* (2,3)

*Ovibos moschatus* (4)

*Ovis canadensis californianus* (1,3)

Dist.: Alta, BC, NWT

Records: 1. Blood 1963 (BC); 2. Kerr and Holmes 1966 (Alta); 3. Samuel, Hall et al. 1978 (Alta, BC); 4. Webster and Rowell 1980 (NWT)

*Marshallagia* spp.

Site: abomasum

Hosts: *Oreamnos americanus* (2)

*Ovibos moschatus* (1)

*Ovis c. canadensis* (2)

Dist.: Alta, BC, NWT, Que

Records: 1. Samuel and Gray 1974 (Alta capt., NWT, Que capt.); 2. Samuel, Hall et al. 1978 (Alta, BC)

*Obeliscoides cuniculi* Graybill, 1924

Site: stomach

Hosts: *Lepus americanus* (1,3)

*L. a. struthopus* (2)

Dist.: Alta, Nfld

Records: 1. Lubinsky 1957 (Alta); 2. Dodds and Mackiewicz 1961 (Nfld); 3. Keith et al. 1985 (Alta)

*Obeliscoides cuniculi cuniculi* Graybill, 1926

Site: stomach

Hosts: *Lepus capensis* (1)

*Marmota monax* (1)

*Oryctolagus cuniculus* (3)

*Sylvilagus floridanus* (1,2)

Dist.: Ont

Records: 1. Measures and Anderson 1983a (Ont), 2. 1983b (Ont), 3. 1984 exp. (Ont)

*Obeliscoides cuniculi multistriatus* Measures and Anderson, 1983

Site: stomach

Hosts: *Lepus americanus* (1,2)

*Oryctolagus cuniculus* (3)

Dist.: Alta, Ont

Records: 1. Measures and Anderson 1983a (Alta, Ont), 2. 1983b (Alta, Ont), 3. 1984 exp. (Ont)

*Ostertagia bisonis* Chapin, 1925

Sites: stomach, duodenum

Host: *Bison bison*

Dist.: Alta

Record: Chapin 1925

*Ostertagia circumcincta* (Stadelmann, 1894) Ransom, 1907

Site: abomasum

Hosts: *Odocoileus hemionus columbianus* (2,3)

*Oreamnos americanus* (1,3,6,8)

*Ovibos moschatus* (4)

*Ovis canadensis* (1)

*O. c. californianus* (5)

*O. c. canadensis* (3,8)

*Rangifer tarandus caribou* (7)

Dist.: Alta, BC, NWT

Records: 1. Cowan 1944 (Alta), 2. 1946 (BC), 3. 1951 (Alta, BC); 4. Gibbs and Tener 1958 (NWT); 5. Blood 1963 (BC); 6. Kerr and Holmes 1966 (Alta); 7. Low 1976 (BC); 8. Samuel, Hall et al. 1978 (Alta, BC)

*Ostertagia dikmansii* Becklund and Walker, 1968

Site: abomasum  
Host: *Odocoileus virginianus*  
Dist.: Ont  
Records: Becklund and Walker 1968; Baker and Anderson 1975

*Ostertagia marshalli* Ransom, 1907

Sites: intestine, stomach  
Hosts: *Oreamnos americanus* (1,2)  
*Ovis canadensis* (1)  
*O. c. canadensis* (2)  
Dist.: Alta, BC  
Records: 1. Cowan 1944 (Alta), 2. 1951 (Alta, BC)

*Ostertagia mossi* Dikmans, 1931

Site: abomasum  
Host: *Odocoileus virginianus*  
Dist.: Ont  
Record: Baker and Anderson 1975

*Ostertagia occidentalis* Ransom, 1907

Site: abomasum  
Hosts: *Oreamnos americanus* (1,2,4,5)  
*Ovis canadensis* (1)  
*O. c. californianus* (3)  
*O. c. canadensis* (2,5)  
Dist.: Alta, BC  
Records: 1. Cowan 1944 (Alta), 2. 1951 (Alta, BC); 3. Blood 1963 (BC); 4. Kerr and Holmes 1966 (Alta); 5. Samuel, Hall et al. 1978 (Alta)

*Ostertagia odocoilei* Dikmans, 1931

Site: abomasum  
Host: *Odocoileus virginianus*  
Dist.: Ont  
Records: Walker and Becklund 1970; Baker and Anderson 1975

*Ostertagia oreamni* (Swales, 1934)

Syn.: *Skrjabinema oreamni* Swales, 1934  
Site: intestine  
Hosts: *Oreamnos americanus* (1,2)  
*Rangifer tarandus* (1,2)  
Dist.: Alta  
Record: 1. Swales 1934; 2. Cowan 1951

*Ostertagia ostertagi* (Stiles, 1892) Ransom, 1907

Site: abomasum  
Host: *Ovis canadensis californianus*  
Dist.: BC  
Record: Blood 1963

*Ostertagia trifurcata* Ransom, 1907

Site: small intestine  
Hosts: *Oreamnos americanus* (1,2,4,6)  
*Ovibos moschatus* (7)  
*Rangifer tarandus* (3)  
*R. t. caribou* (5)  
Dist.: Alta, BC, NWT  
Records: 1. Cowan 1944 (Alta), 2. 1951 (Alta, BC); 3. Choquette et al. 1957 (NWT); 4. Kerr and Holmes 1966 (Alta); 5. Low 1976 (BC); 6. Samuel, Hall et al. 1978 (Alta); 7. Webster and Rowell 1980 (NWT)

*Ostertagia* spp.

Site: abomasum  
Hosts: *Alces alces* (6)  
*A. a. andersoni* (3)  
*Cervus elaphus* (6)  
*Oreamnos americanus* (5)  
*Ovibos moschatus* (4)  
*Ovis canadensis californiana* (2)  
*O. c. canadensis* (5)  
*Rangifer tarandus* (1,2)  
Dist.: Alta, BC, NWT, Que  
Records: 1. Cowan 1944 (Alta), 2. 1951 (Alta, BC); 3. Barrett 1972 (Alta); 4. Samuel and Gray 1974 (Alta capt., NWT, Que capt.); 5. Samuel, Hall et al. 1978 (Alta, BC); 6. Stock and Barrett 1983 (Alta).  
Remarks: Stock and Barrett (1983) reported *Skrjabinagia* sp. from this host. *Skrjabinagia* is regarded as a synonym of *Ostertagia*.

*Spiculopteria bohmi* (Gebauer, 1932) Orloff, 1933

Site: abomasum  
Host: *Odocoileus virginianus*  
Dist.: Que  
Record: Doster and Friend 1971

*Teladorsagia davtiani* Andreeva and Satubaldin, 1954

Site: abomasum  
Host: *Oreamnos americanus*  
Dist.: Alta  
Records: Kerr and Holmes 1966; Samuel, Hall et al. 1978

*Teladorsagia* spp.

Site: abomasum  
Hosts: *Oreamnos americanus*  
*Ovis c. canadensis*  
Dist.: Alta, BC  
Record: Samuel, Hall et al. 1978



*Travassosius americanus* Chapin, 1925

Sites: stomach, small intestine

Host: *Castor canadensis*

Dist.: Alta, NB, Nfld, NS

Records: Choquette and Pimlott 1956 (Nfld);

Smith 1967 (NB); Smith and Archibald 1967

(NS); Bush and Samuel 1978 (Alta), 1981

(Alta)

*Trichostrongylus axei* (Cobbold, 1879) Railliet and Henry, 1909

Sites: stomach, small intestine, abomasum

Hosts: *Cervus elaphus* (2)

*Spermophilus richardsonii* (1)

Dist.: Alta, Sask

Records: 1. McGee 1980 (Sask); 2. Stock and

Barrett 1983 (Alta)

*Trichostrongylus calcaratus* Ransom, 1911

Site: caecum

Host: *Ondatra zibethicus obscurus*

Dist.: Nfld

Record: Rigby and Threlfall 1981

*Trichostrongylus longispicularis* Gorden, 1933

Site: small intestine

Host: *Alces alces*

Dist.: Alta

Record: Stock and Barrett 1983

*Trichostrongylus* spp.

Site: small intestine

Hosts: *Lepus americanus* (1)

*Odocoileus hemionus columbianus* (2)

Dist.: BC, Man

Records: 1. Boughton 1932 (Man); 2. Cowan

1946 (BC)

Unidentified Trichostrongylidae

Trichostrongylidae gen. sp.

Site: intestine

Host: *Alces alces*

Dist.: Alta

Record: Samuel et al. 1976

Remarks: Samuel et al. (1976) did not specify

the site in which their specimens were found,

but presumably it was the intestine.

Unidentified Nematoda

Nematoda gen. spp.

Sites: intestine, lungs

Host: *Lepus americanus*

Dist.: Nfld

Record: Smith and Threlfall 1973

## PHYLUM

### ACANTHOCEPHALA

#### CLASS ARCHIACANTHOCEPHALA

##### ORDER GIGANTORHYNCHIDA

###### FAMILY GIGANTORHYNCHIDAE

*Mediorhynchus robustus* Van Cleave, 1916

Site: small intestine

Host: *Spermophilus richardsonii*

Dist.: Sask

Record: McGee 1980

##### ORDER MONILIFORMIDA

###### FAMILY MONILIFORMIDAE

*Moniliformis spiradentatis* McLeod, 1933

Sites: stomach, intestine

Host: *Spermophilus tridecemlineatus*

Dist.: Man

Record: McLeod 1933

#### CLASS PALAEACANTHOCEPHALA

##### ORDER ECHINORHYNCHIDA

###### FAMILY ECHINORHYNCHIDAE

*Echinorhynchus lateralis* Leidy, 1851

Site: gastrointestinal tract

Host: *Lutra canadensis*

Dist.: Nfld

Record: Smith and Threlfall 1972

##### ORDER POLYMORPHIDA

###### FAMILY POLYMORPHIDAE

*Polymorphus paradoxus* Connell and Corner, 1957

Site: small intestine

Hosts: *Castor canadensis* (1)

*Microtus pennsylvanicus* (2)

*Ondatra zibethicus* (1)

Dist.: Alta

Records: 1. Connell and Corner 1957; 2. Platt

1978

*Polymorphus* spp.

Site: intestine

Hosts: *Ondatra zibethicus*

Dist.: BC, Man

Records: Knight 1951 (BC); McKenzie and

Welch 1979 (Man)

Unidentified Acanthocephala

Acanthocephala gen. sp.

Site: intestine

Host: *Lepus americanus*

Dist.: Man

Record: Boughton 1932

# HOST-PARASITE LIST



**CLASS MAMMALIA**  
**INFRACLASS METATHERIA**  
**ORDER MARSUPIALIA**

**FAMILY DIDELPHIDAE**

*Didelphis virginiana* Kerr Virginia  
 NEMATODA opossum  
*Dracunculus* sp. (Ont)

**INFRACLASS EUTHERIA**  
**ORDER ARTIODACTYLA**

**FAMILY ANTILOCAPRIDAE**

*Antilocapra americana* (Ord) Pronghorn  
 NEMATODA  
*Capillaria hepatica* (Alta)

**FAMILY BOVIDAE**

*Bison bison* (L.) Bison  
 PROTOZOA  
*Sarcocystis* sp. cysts (Alta)  
 TREMATODA  
*Fascioloides magna* (Alta, BC, Que)  
 CESTOIDEA  
*Echinococcus granulosus* hydatid cyst (Alta, NWT, Ont, Sask, YT)  
*Echinococcus* sp. (Alta)  
*Moniezia* sp. (Alta)  
 NEMATODA  
*Dictyocaulus filaria* (Alta)  
*D. hadweni* (Alta)  
*Haemonchus ostertagi* (Alta)  
*Oesophagostomum* sp. (Alta)  
*Ostertagia bisonis* (Alta)  
*Setaria labiatopapillosa* (Alta)

*Oreamnos americanus* (Blainville) Mountain goat  
 PROTOZOA  
*Sarcocystis* sp. cysts (Alta)  
 CESTOIDEA  
 Anoplocephalidae (Alta, BC)  
*Avitellina* sp. (Alta)  
*Cysticercus tenuicollis* (Alta, BC)  
*Moniezia benedini* (Alta)  
*Taenia hydatigena* cysticercus (Alta)  
*Thysanosoma actinioides* (Alta, BC)  
 NEMATODA  
*Marshallagia marshalli* (Alta, BC)  
*Marshallagia* sp. (Alta, BC)  
*Nematodirus davtianii* (Alta)  
*N. filicollis* (Alta)

*N. helvetianus* (Alta)  
*N. maculosus* (Alta, BC)  
*Nematodirus* sp. (Alta, BC)  
*Ostertagia circumcincta* (Alta, BC)  
*O. marshalli* (Alta, BC)  
*O. occidentalis* (Alta, BC)  
*O. oreamni* (Alta)  
*O. trifurcata* (Alta, BC)  
*Ostertagia* sp. (Alta, BC)  
*Parelaphostrongylus odocoilei* (Alta)  
*Protostrongylus rushi* (Alta, BC)  
*P. stilesi* (Alta)  
*Protostrongylus* sp. (Alta)  
*Skrjabinema ovis* (Alta)  
*Teladorsagia davtianii* (Alta)  
*Teladorsagia* sp. (Alta, BC)  
*Trichuris oreamnos* (BC)  
*T. ovis* (Alta)  
*T. schumankovitschi* (Alta)  
*Trichuris* sp. (Alta)

*Ovibos moschatus* (Zimmermann) Muskox

PROTOZOA  
*Eimeria faurei* (Alta, NWT, Que)  
*E. granulosa* (NWT)  
*E. moschati* (Alta, NWT, Que)  
*E. oomingmakensis* (NWT)  
*E. ovibovis* (Alta, NWT, Que)  
*E. ovina* (Alta, NWT, Que)  
*Eimeria* sp. (Alta, NWT, Que)  
*Sarcocystis* sp. cysts (NWT)  
 CESTOIDEA  
*Cysticercus tenuicollis* (NWT)  
*Echinococcus granulosus* hydatid cysts (NWT)  
*Moniezia expansa* (NWT)  
*Moniezia* sp. (Alta, NWT)  
*Taenia hydatigena* cysticercus (Alta, NWT)  
 NEMATODA  
*Capillaria* sp. (Alta)  
*Dictyocaulus viviparus* (NWT)  
*Haemonchus contortus* (Alta, NWT)  
*H. placei* (NWT)  
*Marshallagia marshalli* (NWT)  
*Marshallagia* sp. (Alta, NWT, Que)  
*Nematodirella longispiculata* (NWT)  
*Nematodirella* sp. (Alta, NWT)  
*Nematodirus helvetianus* (NWT)  
*Nematodirus* sp. (Alta, NWT, Que)  
*Ostertagia circumcincta* (NWT)  
*O. trifurcata* (NWT)  
*Ostertagia* sp. (Alta, NWT, Que)  
*Trichuris* sp. (Alta)

*Ovis canadensis* Shaw Mountain sheep  
 PROTOZOA  
*Sarcocystis* sp. cysts (Alta)  
 CESTODA

<i>Cysticercus tenuicollis</i> (Alta)		<i>Teladorsagia</i> sp. (Alta)	
<i>Moniezia benedini</i> (Alta)		<i>Trichuris ovis</i> (BC)	
NEMATODA		<i>T. schumakovitschi</i> (Alta, Can)	
<i>Dictyocaulus viviparus</i> (Alta)			
<i>Nematodirus filicollis</i> (Alta)		<i>Ovis dalli</i> Nelson	Dall's sheep
<i>Ostertagia circumcincta</i> (Alta)		CESTOIDEA	
<i>O. marshalli</i> (Alta)		<i>Wyominia tetoni</i> (YT)	
<i>O. occidentalis</i> (Alta)			
<i>Protostrongylus stilesi</i> (Alta, BC)		FAMILY CERVIDAE	
<i>Ovis canadensis californiana</i>	Douglas	<i>Alces alces</i> (L.)	Moose
PROTOZOA		PROTOZOA	
<i>Eimeria</i> sp. (BC)		<i>Sarcocystis</i> sp. cysts (Alta, Ont)	
NEMATODA		TREMATODA	
<i>Marshallagia marshalli</i> (Alta, BC)		<i>Fascioloides magna</i> (Alta, BC, Man, Ont, Sask)	
<i>Nematodirus</i> sp. larva (BC)		<i>Paramphistomum cervi</i> (Nfld, Ont, Que)	
<i>Ostertagia circumcincta</i> (BC)		<i>Paramphistomum</i> spp. (Alta)	
<i>O. occidentalis</i> (BC)		<i>Zygocotyle lunata</i> (Alta)	
<i>O. ostertagi</i> (BC)		CESTOIDEA	
<i>Ostertagia</i> sp. (BC)		Cestoidea gen. spp. (BC)	
<i>Protostrongylus larva</i> (BC)		<i>Cysticercus tenuicollis</i> (Alta, BC, Nfld)	
<i>Skrjabinema</i> sp. (BC)		<i>Cysticercus</i> sp. cyst (BC, NS, Ont, Sask, YT)	
<i>Trichuris</i> sp. (BC)		<i>Echinococcus granulosus</i> hydatid cyst (Alta, BC, Man, NS, NWT, Ont, Que, Sask, YT)	
<i>Ovis canadensis canadensis</i> Shaw		<i>Moniezia benedini</i> (Alta, BC)	
PROTOZOA		<i>Moniezia</i> sp. (Alta)	
<i>Eimeria ahsata</i> (Alta, BC)		<i>Taenia hydatigena</i> cysticercus (Alta, Ont, Sask)	
<i>E. crandallii</i> (Alta, BC)		<i>Taenia krabbei</i> cysticercus (Alta, NWT, Ont, Que, Sask, YT)	
<i>E. faurei</i> (Alta)		<i>Taenia ovis</i> / <i>T. krabbei</i> cysticercus (Alta, BC)	
<i>E. granulosa</i> (Alta)		<i>Taenia</i> sp. metacestode (Ont)	
<i>E. intricata</i> (Alta)		<i>Thysanosoma actinioides</i> (Alta)	
<i>E. ninakohlyakimovae</i> (Alta, BC)		NEMATODA	
<i>E. ovina</i> (Alta, BC)		<i>Dictyocaulus hadweni</i> (Alta, Nfld)	
<i>E. parva</i> (Alta, BC)		<i>D. viviparus</i> (Alta, BC, Que)	
CESTOIDEA		<i>Elaphostrongylus cervi</i> (Ont)	
<i>Cysticercus tenuicollis</i> (Alta, BC)		<i>Nematodirella alcidis</i> (Alta)	
<i>Moniezia benedini</i> (Alta, BC)		<i>N. longispiculata</i> (Alta, BC, Nfld)	
<i>M. expansa</i> (Alta)		<i>Nematodirus</i> sp. (Ont, Que)	
<i>Taenia hydatigena</i> cysticercus (Alta)		<i>Onchocerca cervipedis</i> (Alta, BC)	
<i>Thysanosoma actinioides</i> (BC)		<i>Orthostrongylus macrotis</i> (Alta)	
NEMATODA		<i>Ostertagia</i> sp. (Alta)	
<i>Dictyocaulus viviparus</i> (Alta)		<i>Parelaphostrongylus odocoilei</i> (Alta)	
<i>Marshallagia</i> sp. (Alta)		<i>P. tenuis</i> (Man, NB, NS, Ont)	
<i>Nematodirus archari</i> (Alta)		<i>P. tenuis</i> larva (Ont)	
<i>N. davtiani</i> (Alta)		<i>Protostrongylus macrotis</i> (Alta)	
<i>N. filicollis</i> (Alta)		<i>Setaria labiatopapillosa</i> (Alta)	
<i>N. oiratianus</i> (Alta)		<i>S. yehi</i> (Alta)	
<i>N. spathiger</i> (Alta)		<i>Setaria</i> sp. (Que)	
<i>Nematodirus</i> sp. (Alta, BC)		<i>Trichostrongylus longispicularis</i> (Alta)	
<i>Ostertagia circumcincta</i> (Alta, BC)		<i>Trichuris</i> sp. (Alta, BC)	
<i>O. marshalli</i> (Alta, BC)		<i>Alces a. americana</i> (Clinton)	
<i>O. occidentalis</i> (Alta, BC)		NEMATODA	
<i>Ostertagia</i> sp. (Alta)		<i>Parelaphostrongylus tenuis</i> (Ont)	
<i>Protostrongylus rushi</i> (Alta, BC)			
<i>P. stilesi</i> (Alta, BC)			
<i>Protostrongylus</i> sp. larvae (Alta, BC)			
<i>Skrjabinema ovis</i> (Alta)			

- Alces a. andersoni* Peterson
- PROTOZOA  
*Sarcocystis* sp. cyst (Alta)  
 CESTOIDEA  
*Echinococcus granulosus* hydatid cyst (Alta)  
*Moniezia* sp. (Alta)  
*Taenia hydatigena* cysticercus (Alta)  
*Taenia krabbei* cysticercus (Alta)  
*Thysanosoma actinioides* (Alta)  
 NEMATODA  
*Dictyocaulus viviparus* (Alta)  
*Nematodirella longispiculata* (Alta)  
*Onchocerca cervipedis* (Alta)  
*Ostertagia* sp. (Alta)  
*Parelaphostrongylus odocoilei* (Alta)  
*Setaria* sp. (Alta)  
*Trichuris* sp. (Alta)
- Cervus elaphus* L. Wapiti
- PROTOZOA  
*Eucoccidiida* gen. sp. (Sask)  
*Sarcocystis* sp. cysts (Alta)  
 TREMATODA  
*Fascioloides magna* (Alta, BC, Ont, Que, Sask)  
 CESTOIDEA  
*Cysticercus tenuicollis* (Alta, BC, Ont)  
*Echinococcus granulosus* hydatid cyst (Alta, BC, NWT, Ont, Sask, YT)  
*Moniezia benedini* (Alta)  
*Taenia hydatigena* cysticercus (Alta)  
*Thysanosoma actinioides* (Alta, BC)  
 NEMATODA  
*Cooperia oncophora* (Alta)  
*Dictyocaulus viviparus* (Alta, BC)  
*Nematodirella alcidis* (Alta)  
*N. longispiculata* (Alta)  
*Nematodirus helvetianus* (Alta)  
*Orthostrongylus macrotis* (Alta)  
*Ostertagia* sp. (Alta)  
*Parelaphostrongylus tenuis* (Ont)  
*Setaria cervi* (Alta)  
*Trichostrongylus axei* (Alta)  
*Trichuris ovis* (Alta)  
*Trichuris* sp. (Alta)
- Odocoileus hemionus* (Rafinesque) Mule deer
- PROTOZOA  
*Sarcocystis* sp. cysts (Alta)  
 CESTOIDEA  
*Cysticercus tenuicollis* (BC, NWT)  
 NEMATODA  
*Dictyocaulus viviparus* (Alta)  
*Nematodirus odocoilei* (BC)  
*Parelaphostrongylus odocoilei* (Alta)  
*Parelaphostrongylus* sp. larva (Alta)  
*Setaria yehi* (BC)  
*Trichuris* sp. (Alta)
- Odocoileus hemionus columbianus* (Richardson)  
 Syn.: *Odocoileus columbianus* Merriam
- TREMATODA  
*Fasciola hepatica* (BC)  
*Fascioloides magna* (Alta, BC, Can)  
 CESTOIDEA  
*Cysticercus ovis* (BC)  
*C. tenuicollis* (BC)  
*Cysticercus* sp. cyst (Alta, BC)  
*Echinococcus granulosus* hydatid cysts (Alta, BC)  
*Moniezia benedini* (Alta, BC)  
*Taenia krabbei* / *T. ovis* cysticercus (BC)  
*Thysanosoma actinioides* (Alta, BC)  
 NEMATODA  
*Capillaria* sp. (BC)  
*Dictyocaulus viviparus* (BC)  
*Elaeophora schneideri* (BC)  
*Haemonchus contortus* (BC)  
*Nematodirella longispiculata* (BC)  
*N. l. antilocaprae* (BC)  
*Nematodirus filicollis* (BC)  
*Onchocerca cervipedis* (BC)  
*Oesophagostomum venulosum* (BC)  
*Ostertagia circumcincta* (BC)  
*Parelaphostrongylus odocoilei* (Alta, BC)  
*Setaria cervi* (BC)  
*Trichostrongylus* sp. (BC)  
*Trichuris ovis* (BC)
- Odocoileus hemionus hemionus* (Rafinesque)
- TREMATODA  
*Fascioloides magna* (Alta, BC)  
 CESTOIDEA  
*Cysticercus tenuicollis* (Alta, BC)  
*Echinococcus granulosus* hydatid cyst (Alta)  
*Moniezia benedini* (Alta, BC)  
*Thysanosoma actinioides* (BC)  
 NEMATODA  
*Dictyocaulus viviparus* (Alta, BC)  
*Onchocerca cervipedis* (BC)  
*Parelaphostrongylus odocoilei* (Alta)  
*P. tenuis* (Ont)  
*Varestrongylus alpenae* (Sask)
- Odocoileus virginianus* (Zimmermann) White-tailed deer
- PROTOZOA  
*Sarcocystis* sp. cysts (Alta, Ont)  
 TREMATODA  
*Fascioloides magna* (Alta, BC, Ont, Que)  
 CESTOIDEA  
*Echinococcus granulosus* hydatid cyst (Alta, NWT, Ont, Sask, YT)  
*Taenia hydatigena* cysticercus (Ont)  
 NEMATODA  
*Dictyocaulus viviparus* (Ont)



- Nematodirus odocoilei* (Que)  
*Oesophagostomum venulosum* (Ont)  
*Onchocerca cervipedis* (Ont)  
*Ostertagia dikmansi* (Ont)  
*O. mossi* (Ont)  
*O. odocoilei* (Ont)  
*Parelaphostrongylus andersoni* (BC)  
*P. tenuis* (Man, NB, NS, Ont, Que, Sask)  
*P. tenuis* larva (Ont)  
*Setaria tundra* (Ont)  
*Spiculoptera bohmii* (Que)  
*Varestrongylus alpenae* (Sask)
- Odocoileus virginianus borealis* Miller  
 NEMATODA  
*Elaphostrongylus odocoilei* (Ont)  
*Parelaphostrongylus tenuis* (Ont)
- Odocoileus virginianus dacotensis* Goldman and Kellogg  
 NEMATODA  
*Parelaphostrongylus tenuis* larva (Alta)
- Odocoileus virginianus ochrourus* Bailey  
 CESTOIDEA  
*Cysticercus tenuicollis* (BC)
- Odocoileus* sp.  
 CESTOIDEA  
*Taenia hydatigena* cysticercus (Alta, BC, Ont, Que)
- Rangifer tarandus* (L.) Caribou  
 PROTOZOA  
*Besnoitia* sp. (NWT)  
*Sarcocystis* sp. cyst (NWT)  
 CESTOIDEA  
*Avitellina arctica* (NWT)  
*Cysticercus tarandi* (NWT)  
*C. tenuicollis* (Alta, BC, NWT)  
*Cysticercus* sp. cyst (Alta, BC)  
*Echinococcus granulosus* hydatid cyst (Alta, NWT, Ont, Sask, YT)  
*Moniezia expansa* (Sask)  
*Moniezia* sp. (NWT)  
*Taenia hydatigena* cysticercus (NWT)  
*T. krabbei* cysticercus (Alta, NWT, Sask)  
*T. ovis* / *T. krabbei* cysticercus (Alta)  
 NEMATODA  
*Dictyocaulus viviparus* (NWT)  
*Elaphostrongylus cervi* (Ont)  
*Nematodirella longispiculata* (NWT)  
*Ostertagia oreamni* (Alta)  
*O. trifurcata* (NWT)  
*Ostertagia* spp. (Alta)  
*Setaria cervi* (Sask)  
*S. yehi* (NWT)
- Rangifer tarandus caribou* (Gmelin)  
 PROTOZOA  
 Amoebae (BC)  
*Besnoitia* sp. (Sask)  
*Sarcocystis* sp. cyst (Sask)  
 TREMATODA  
*Fascioloides magna* (Que)  
 CESTOIDEA  
*Moniezia* sp. (BC)  
 NEMATODA  
*Dictyocaulus* sp. (BC)  
*Elaphostrongylus cervi* (Nfld)  
*E. cervi* larva (Man, Nfld)  
*Nematodirella longispiculata* (BC)  
*Nematodirus* sp. (BC)  
*Onchocerca* sp. (BC)  
*Ostertagia circumcincta* (BC)  
*O. trifurcata* (BC)  
*Parelaphostrongylus tenuis* larva (NS)  
*Protostrongylus* larva (Man, Ont)
- Rangifer tarandus groenlandicus* (L.)  
 CESTOIDEA  
*Echinococcus granulosus* hydatid cyst (Man)  
*Taenia hydatigena* cysticercus (not specified)  
*T. krabbei* cysticercus (NWT, Ont, Sask, YT)  
*T. ovis* cysticercus (NWT)  
 NEMATODA  
*Dictyocaulus viviparus* (NWT)  
*Elaphostrongylus cervi* larva (Man, Nfld)
- Rangifer tarandus tarandus* L.  
 NEMATODA  
*Parelaphostrongylus tenuis* (Ont)
- Rangifer tarandus terraenovae* (Gmelin)  
 CESTOIDEA  
*Cysticercus tenuicollis* (Nfld)  
 NEMATODA  
*Parelaphostrongylus tenuis* (Ont)
- Rangifer* sp.  
 NEMATODA  
*Skrjabinema oreamni* (Alta)
- CERVIDAE OF UNDETERMINED SPECIES
- Barren-ground caribou  
 PROTOZOA  
*Besnoitia* sp. (NWT)
- Deer  
 TREMATODA  
*Fascioloides magna* (Ont)  
 CESTOIDEA  
*Cysticercus tenuicollis* (Ont)

*Echinococcus granulosus* hydatid cyst (Ont)  
*Taenia hydatigena* cysticercus (Alta)

Elk

TREMATODA  
*Fascioloides magna* (Ont)

Moose

PROTOZOA  
*Sarcocystis* sp. cyst (not specified)  
TREMATODA  
*Fascioloides magna* (Ont)  
CESTOIDEA  
*Cysticercus tarandi* (Ont)  
*C. tenuicollis* (Ont)  
*Echinococcus granulosus* hydatid cyst (Man, Ont)  
*Taenia hydatigena* cysticercus (Man)  
*T. krabbei* cysticercus (Man)  
NEMATODA  
*Dictyocaulus* sp. (Man)  
*Setaria* sp. (Man)

Reindeer

CESTOIDEA  
*Echinococcus granulosus* hydatid cyst (Alta, NWT, Ont, Sask, YT)

**ORDER CARNIVORA**  
**FAMILY CANIDAE**

*Alopex lagopus* (L.) Arctic fox

PROTOZOA  
Coccidia (NWT)  
Eucoccidiida gen. sp. (NWT)  
CESTOIDEA  
*Echinococcus multilocularis* (NWT)  
*Taenia crassiceps* (NWT)  
*T. polyacantha* (NWT)  
NEMATODA  
*Toxascaris leonina* (NWT)  
*Trichinella spiralis* cyst (NWT)

*Canis latrans* Say Coyote

PROTOZOA  
*Toxoplasma gondii* (Ont)  
TREMATODA  
*Alaria americana* (Alta, Ont)  
*A. arisaemoides* (Alta, Man, Ont)  
*A. marciana* (Man)  
*Metorchis conjunctus* (Alta)  
*Paragonimus kellicotti* (Ont)  
CESTOIDEA  
*Diphyllobothrium* sp. (Alta)  
*Echinococcus granulosus* (Alta, Man, Ont)  
*E. multilocularis* (Man)

*Mesocestoides kirbyi* (Alta)  
*Mesocestoides* sp. (Ont)  
*Taenia hydatigena* (Alta, Man, Ont)  
*T. krabbei* (Alta)  
*T. laticollis* (Ont)  
*T. multiceps* (Alta)  
*T. pisiformis* (Alta, Man, Ont)  
*T. twitchelli* (Alta)  
*Taenia* sp. (Man)

NEMATODA  
*Ancylostoma caninum* (Alta)  
*Capillaria aerophila* (Alta)  
*C. hepatica* (Sask)  
*C. plica* (Ont)  
*Capillaria* sp. (not specified)  
*Diocotophyma renale* (Alta)  
*Oslerus osleri* (Alta, Man, Ont)  
*Physaloptera* sp. (not specified)  
*Toxocara canis* (Alta)  
*Toxascaris leonina* (Alta, Man)  
*Trichinella spiralis* larva (BC, Que)

*Canis lupus* L. Gray wolf

TREMATODA  
*Alaria americana* (Alta, Ont, YT)  
*A. arisaemoides* (Man, NWT, YT)  
*A. canis* (Ont)  
*A. marciana* (Man, Que)  
*Metorchis conjunctus* (Alta, Sask)  
CESTOIDEA  
*Diphyllobothrium* sp. (Alta, NWT, Ont)  
*Echinococcus granulosus* (Alta, Man, NWT, Ont, Que, YT)  
*Mesocestoides kirbyi* (Alta, YT)  
*Taenia crassiceps* (Man, Ont)  
*T. hydatigena* (Alta, Man, NWT, Ont, Que, YT)  
*T. krabbei* (Alta, NWT, Ont, YT)  
*T. laticollis* (Ont)  
*T. multiceps* (Alta)  
*T. omisa* (Alta)  
*T. pisiformis* (Alta, NWT, Ont)  
*T. serialis* (NWT, YT)  
*T. taeniaeformis* (Alta)  
*Taenia* sp. (Man, NWT, Ont, Que, YT)  
NEMATODA  
*Capillaria aerophila* (Alta)  
*Diocotophyma renale* (Que)  
*Oslerus osleri* (Man, Ont)  
*Spirocerca arctica* (NWT)  
*S. lupi* (NWT)  
*Toxocara canis* (Alta)  
*Toxascaris leonina* (Alta, Man, NWT, YT)  
*Trichinella spiralis* larva (Alta, NWT, Que, YT)  
*Trichinella* sp. (Alta)

*Vulpes vulpes* (L.) Red fox

Syn.: *Vulpes fulva* De Kay

PROTOZOA

*Toxoplasma gondii* (Ont)

TREMATODA

*Alaria alata* (Man, PEI, Que)

*A. americana* (NB, NS, Ont, PEI, Que)

*A. arisaemoides* (Man, NB, NS, Ont)

*A. marcianae* (Sask)

*A. mustelae* (NB, NS, Ont)

*Cryptocotyle lingua* (NB, NS)

*Echinostoma revolutum* (NB, NS)

*Metorchus conjunctus* (NB, NS)

*Paragonimus kellicotti* (Ont)

*Phagicola longa* (Ont, Que)

CESTOIDEA

*Diphyllobothrium cordatum* (Ont)

*D. latum* (Man, Ont)

*Diphyllobothrium* sp. (Ont)

*Dipylidium caninum* (Que)

*Echinococcus multilocularis* (Man, Sask)

*Mesocostoides* sp. (Ont)

*Taenia crassiceps* (Man, NB, NS, Ont)

*T. pisiformis* (Ont)

*Taenia* sp. (Man, Ont)

NEMATODA

*Ancylostoma caninum* (Que)

*Capillaria aerophila* (NB, NS, Ont)

*C. plica* (Ont)

*Crenosoma decoratum* (Ont)

*C. vulpis* (NB, Nfld, NS, Ont)

*Toxascaris leonina* (Man, Ont, Que)

*Toxocara canis* (Man, NB, NS, Ont)

*Trichinella spiralis* cyst/larva (Que)

*Trichuris vulpis* (Que)

CANIDAE OF UNDETERMINED SPECIES

Coyote x Dog

CESTOIDEA

*Taenia crassiceps* (Ont)

*T. pisiformis* (Ont)

NEMATODA

*Oslerus osleri* (Ont)

Red fox

CESTOIDEA

*Taenia crassiceps* (Ont)

NEMATODA

*Crenosoma* sp. (Ont)

FAMILY FELIDAE

*Felis concolor* L.

Mountain lion

CESTOIDEA

*Taenia hydatigena* (Alta)

*T. omissa* (Alta, BC)

NEMATODA

*Trichinella spiralis* larva (BC)

*Trichinella* sp. larva (Alta)

*Felis concolor vancouverensis* Nelson and Goldman

CESTOIDEA

*Taenia hydatigena* (BC)

*T. taeniaeformis* (BC)

*Lynx canadensis* Kerr

Lynx

Syn.: *Lynx lynx* (L.)

TREMATODA

*Alaria americana* (Ont)

*A. canis* (Ont)

*Alaria* sp. (Alta, NWT)

CESTOIDEA

*Multiceps* sp. (Alta, NWT)

*Taenia laticollis* (Alta, BC, Nfld, NWT)

*T. macrocystis* (Nfld)

*T. pisiformis* (Alta, NWT)

*T. rileyi* (Alta, BC, NWT)

*Taenia* sp. (Alta, NWT)

NEMATODA

*Cylicospirura subaequalis* (Alta, Nfld, NWT)

*Physaloptera praeputialis* (Alta)

*Physaloptera* sp. (Ont)

*Toxocara cati* (Alta, NWT, Ont)

*Toxascaris leonina* (Alta, Nfld, NWT)

*Trichinella spiralis* larva (BC)

*Troglostrongylus wilsoni* (Alta, NWT)

*Lynx rufus* (Schreber)

Bobcat

TREMATODA

*Alaria americana* (Ont)

*A. canis* (Ont)

CESTOIDEA

*Taenia laticollis* (BC)

*T. macrocystis* (NB, NS)

*T. rileyi* (BC)

NEMATODA

*Trichinella spiralis* cyst (BC, Que)

*Lynx rufus fasciatus* Rafinesque

CESTOIDEA

*Taenia taeniaeformis* (BC)

NEMATODA

*Toxascaris leonina* (BC)

FAMILY MUSTELIDAE

*Gulo gulo* (L.)

Wolverine

TREMATODA

*Alaria* sp. (NWT)

CESTOIDEA

*Diphyllobothrium* sp. (NWT)

*Taenia martis* (NWT)

*T. twitchelli* (NWT)



- NEMATODA  
*Baylisascaris devosi* (NWT)  
*Physaloptera* sp. (NWT)  
*Trichinella spiralis* cyst (BC, Man)
- Lutra canadensis* Schreber River otter
- TREMATODA  
*Alaria americana* mesocercaria (Ont)
- CESTOIDEA  
*Schistocephalus solidus* plerocercoid (Nfld)
- NEMATODA  
*Dracunculus lutrae* (Ont)  
*Dracunculus* sp. (Ont)  
*Skrjabinigylus lutrae* (Ont)
- ACANTHOCEPHALA  
*Echinorhynchus lateralis* (Nfld)
- Lutra canadensis canadensis* (Schreber)
- NEMATODA  
*Filaroides canadensis* (Ont)  
*Gnathostoma miyazakii* (Ont)
- Martes americana* (Turton) Marten
- TREMATODA  
*Alaria taxideae* (Man, NWT)
- CESTOIDEA  
*Mesocestoides* sp. (Ont)  
*Taenia martis* (NWT, Ont)  
*T. mustelae* (Man, NWT)  
*Taenia* sp. (Man, NWT)
- NEMATODA  
*Baylisascaris devosi* (Man)  
*Capillaria aerophila* (Ont)  
*C. putorii* (Ont)  
*Trichinella spiralis* cyst (BC, Man, Que)  
*Trichinella* sp. larva (Man)
- Martes americana actuosa* (Osgood)
- TREMATODA  
*Alaria taxideae* (NWT)
- CESTOIDEA  
*Taenia martis* (NWT)  
*T. mustelae* (NWT)
- Martes americana americana* (Turton)
- NEMATODA  
*Baylisascaris devosi* (Ont)
- Martes martes* L. Pine marten
- PROTOZOA  
*Toxoplasma gondii* (Ont)
- Martes pennanti* (Erxleben) Fisher
- PROTOZOA  
*Toxoplasma gondii* (Ont)
- TREMATODA  
*Alaria americana* (Ont)
- A. mustelae* (Man)  
*Alaria* sp. (Ont)  
*Echinostoma* sp. (Ont)  
*Metorchis conjunctus* (Man)
- CESTOIDEA  
*Echinococcus granulosus* (Ont)  
*Taenia sibirica* (Man)
- NEMATODA  
*Baylisascaris devosi* (Man)  
*Capillaria plica* (Ont)  
*C. putorii* (Ont)  
*Crenosoma petrowi* (Ont)  
*Dracunculus insignis* (Ont)  
*Molineus* sp. (Man)  
*Physaloptera* sp. (Man)  
*Sobolevingylus* sp. (Ont)  
*Trichinella spiralis* (Man)  
*Trilobostongylus bioccai* (Ont)
- Martes pennanti pennanti* (Erxleben)
- NEMATODA  
*Baylisascaris devosi* (Ont)  
*Trilobostongylus bioccai* (Ont)
- Mephitis mephitis* (Schreber) Striped skunk
- PROTOZOA  
*Toxoplasma gondii* (Alta, Ont, Sask)
- TREMATODA  
*Alaria canadensis* (Que)  
*Apophallus* sp. (Que)  
*Euryhalmis pyriformis* (Que)  
*Fibricola cratera* (Que)  
*Paragonimus kellicotti* (Ont)
- CESTOIDEA  
*Mesocestoides latus* (Que)  
*Oochoristica oklahomensis* (Que)
- NEMATODA  
*Andersonstrongylus captivensis* (Ont)  
*Arthrocephalus lotoris* (Que)  
*Baylisascaris columnaris* (Ont, Que)  
*B. devosi* (Ont)  
*Capillaria plica* (Ont)  
*C. procyonis* (Ont)  
*C. putorii* (Ont)  
*Crenosoma mephitidis* (Ont, Que)  
*Dipetalonema mephitis* (Ont, Que)  
*D. mephitis microfilaria* (Ont, Que)  
*Dracunculus insignis* (Ont)  
*Filaroides martis* (Que)  
*F. mephitis* (Ont)  
*Physaloptera maxillaris* (Ont, Que)  
*Physaloptera* sp. (Que)  
*Placoconus lotoris* (Que)  
*Skrjabinigylus chitwoodorum* (Ont)  
*S. magnus* (Que)  
*Skrjabinigylus* sp. (Que)  
*Trichinella spiralis* larva (BC)

<i>Mustela erminea</i> L.	Ermine	<i>Taenia mustelae</i> (Nfld, Ont)
CESTOIDEA		<i>T. mustelae</i> metacestode (Ont)
<i>Taenia mustelae</i> (Nfld, Ont)		<i>Taenia</i> sp. (Ont)
NEMATODA		NEMATODA
<i>Aelurostrongylus pridhami</i> (Nfld)		<i>Aelurostrongylus pridhami</i> (Nfld, Ont)
<i>Capillaria putorii</i> (Ont)		<i>Ascaris</i> sp. (Ont)
<i>Capillaria</i> sp. larva (Nfld)		<i>Capillaria mustelorum</i> (Nfld)
<i>Dracunculus</i> sp. (Ont)		<i>C. putorii</i> (Ont)
<i>Skrjabinogylus nasicola</i> (BC, Nfld)		<i>Capillaria</i> sp. (Ont)
		<i>Diectophyma renale</i> (Man, Ont, Que)
<i>Mustela erminea anguinae</i> Hall		<i>Dracunculus insignis</i> (Ont)
NEMATODA		<i>Dracunculus</i> sp. (Ont)
<i>Skrjabinogylus nasicola</i> (BC)		<i>Filaria</i> sp. (Ont)
		<i>Filaroides bronchialis</i> (Ont)
<i>Mustela erminea richardsonii</i> Bonaparte		<i>F. martis</i> (Ont)
NEMATODA		<i>Oslerus</i> sp. (Ont)
<i>Skrjabinogylus nasicola</i> (Man)		<i>Skrjabinogylus nasicola</i> (Ont)
		<i>Strongyloides</i> sp. (Ont)
<i>Mustela frenata</i> Lichtenstein Long-tailed weasel		<i>Trichinella spiralis</i> larva (BC)
NEMATODA		
<i>Trichinella spiralis</i> larva (BC)		
<i>Mustela frenata longicauda</i> Bonaparte		<i>Mustela vison vison</i> Schreber
NEMATODA		NEMATODA
<i>Skrjabinogylus nasicola</i> (Man)		<i>Aelurostrongylus pridhami</i> (Ont)
		<i>Crenosoma hermani</i> (Ont)
<i>Mustela putorius</i> (L.)	Ferret (Lab)	<i>Filaroides martis</i> (Ont)
PROTOZOA		
<i>Eimeria mustelae</i> (Ont)		<i>Spilogale putorius gracilis</i> Merriam Spotted skunk
TREMATODA		Syn.: <i>Spilogale gracilis olympica</i> Merriam
<i>Alaria americana</i> mesocercaria (Ont)		NEMATODA
		<i>Skrjabinogylus chitwoodorum</i> (BC)
CESTOIDEA		
<i>Taenia mustelae</i> (Ont)		<i>Taxidea taxus</i> (Schreber) Badger
<i>T. mustelae</i> metacestode (Ont)		PROTOZOA
NEMATODA		<i>Sarcocystis campestris</i> (Sask)
<i>Baylisascaris devosi</i> (Ont)		NEMATODA
		<i>Ascaris</i> sp. (Alta)
<i>Mustela vison</i> Schreber	Mink	<i>Crenosoma petrowi</i> (Ont)
PROTOZOA		<i>Dracunculus</i> sp. (Man)
<i>Eimeria mustelae</i> (Ont)		<i>Physaloptera</i> sp. (Alta)
<i>Hepatozoon</i> sp. (Ont)		
<i>Toxoplasma gondii</i> (Ont)		MUSTELIDAE OF UNDETERMINED SPECIES
TREMATODA		Ferret
<i>Alaria craterum</i> (Ont)		TREMATODA
<i>A. mustelae</i> (Ont)		<i>Alaria americana</i> (Ont)
<i>Euparyphium inerme</i> (Ont)		<i>A. arisaemoides</i> mesocercaria (Ont)
<i>E. melis</i> (Ont)		
<i>Hemistomum craterum</i> (Ont)		Mink
<i>Nanophyetus salmincola</i> (Ont)		TREMATODA
<i>Paragonimus kellicotti</i> (Ont)		<i>Dicrocoelium dendriticum</i> (PEI)
<i>Paragonimus</i> sp. (Ont)		<i>Paragonimus kellicotti</i> (Ont)
<i>Parametorchis canadensis</i> (Ont)		<i>Paragonimus</i> sp. (Can)
<i>Plagiorchis proximus</i> (Ont)		NEMATODA
CESTOIDEA		<i>Diectophyma renale</i> (Ont)
<i>Mesocestoides</i> sp. (Ont)		<i>Dracunculus insignis</i> (Ont)
		<i>Filaroides martis</i> (Ont)

Otter

NEMATODA

*Dracunculus insignis* (Ont)

FAMILY PROCYONIDAE

*Procyon lotor* (L.)

Raccoon

PROTOZOA

*Toxoplasma gondii* (Ont)

TREMATODA

*Apophallus venustus* (Can, Ont)

*Fibricola laruei* (Que)

*Pharyngostomoides adenocephala* (Ont)

*P. procyonis* (Ont)

NEMATODA

*Ascaris* sp. (Ont)

*Capillaria plica* (Ont)

*C. procyonis* (Ont)

*C. putorii* (Ont)

*Capillaria* sp. (Ont)

*Crenosoma goblei* (Ont)

*Dracunculus insignis* (Ont)

*Dracunculus* sp. (Ont)

*Physaloptera* sp. (Ont, Que)

*Placoconus lotoris* (Que)

*Trichinella spiralis* cyst/larva (Que)

*T. s. var. pseudospiralis* (Man)

*Trichinella* sp. (Man)

*Procyon lotor hirtus* Nelson and Goldman

TREMATODA

*Alaria marcianae* (Sask)

*Microphallus* sp. (Sask)

*Pharyngostomoides adenocephala* (Sask)

*Plagiorchus elegans* (Sask)

CESTOIDEA

*Atriotaeonia procyonis* (Sask)

NEMATODA

*Physaloptera* sp. (Sask)

PROCYONIDAE OF UNDETERMINED

SPECIES

Raccoon

NEMATODA

*Dracunculus insignis* (Ont)

FAMILY URSIDAE

*Ursus americanus* Pallas

Black bear

PROTOZOA

*Eucoccidiida* gen. sp. (Que)

*Eimeria albertensis* (Alta)

*E. borealis* (Alta)

*Toxoplasma gondii* (Ont)

TREMATODA

*Alaria americana* (Ont)

CESTOIDEA

*Diphyllobothrium ursi* (Que)

*D. ursi* eggs (Que)

*Diphyllobothrium* sp. egg (Que)

*Taenia hydatigena* (Alta, Que)

*T. krabbei* (Alta, Ont, Que)

Taeniid ova (Que)

NEMATODA

*Ascaris* gen. sp. egg (Que)

*Ascaris* sp. (Que)

*Baylisascaris transfuga* (Alta, Ont, Que)

*B. transfuga* egg (Que)

*Crenosoma petrowi* (Ont)

*C. potos* (Ont)

*C. vulpis* (Ont)

*Crenosoma* sp. (Ont)

*Dirofilaria ursi* (Alta, Ont, Que)

*D. ursi microfilaria* (Ont)

*D. ursi* ova (Que)

*Physaloptera rara* (Ont)

*Trichinella spiralis* cyst/larva (BC, Que)

*Trichinella* sp. larva (Ont)

*Uncinaria yukonensis* (Que, YT)

*Ursus americanus americanus* Pallas

NEMATODA

*Dirofilaria ursi* (Ont, Que)

*Ursus americanus vancouveri* Hall

NEMATODA

*Toxascaris transfuga* (BC)

*Ursus arctos* L.

Grizzly bear

CESTOIDEA

*Diphyllobothrium ursi* (BC, YT)

*Taenia krabbei* (NWT, YT)

NEMATODA

*Baylisascaris transfuga* (BC, NWT?, YT?)

*Dirofilaria ursi* (BC, YT)

*Trichinella spiralis* larva (BC, NWT, YT)

*Trichinella* sp. larva (Alta)

*Uncinaria yukonensis* (NWT, YT)

*Ursus maritimus* Phipps

Polar bear

NEMATODA

*Trichinella spiralis* (Man)

*T. spiralis* cyst (Man, Nfld)

ORDER CHIROPTERA

FAMILY VESPERTILIONIDAE

*Eptesicus fuscus*

Big brown bat

(Palisot de Beauvois)

PROTOZOA

*Trypanosoma hedricki* (Ont)

TREMATODA



*Acanthatrium eptesici* (BC)  
*Plagiorchis vespertilionis* (BC)  
*Plagiorchis* sp. (BC)  
*Prosthodendrium macnabi* (BC)  
*Prosthodendrium* sp. (BC)  
CESTOIDEA  
*Hymenolepis gertschi* (BC)  
NEMATODA  
*Litomosoides guiterasi* (BC)  
*Rictularia lucifugus* (BC)

*Lasionycteris noctivagans* Silver-haired bat  
(Le Conte)

TREMATODA  
*Acanthatrium nycteridis* (BC)  
*Plagiorchis vespertilionis* (BC)  
*Plagiorchis* sp. (BC)  
*Prosthodendrium macnabi* (BC)  
*Prosthodendrium* sp. (BC)

*Lasiurus cinereus* (Palisot de Beauvois) Hoary bat

TREMATODA  
*Limatulum gastroides* (BC)  
*Plagiorchis vespertilionis* (BC)  
*Prosthodendrium silvai* (BC)  
*Prosthodendrium* sp. (BC)  
CESTOIDEA  
Cestoidea gen. sp. (BC)

*Myotis californicus* California bat  
(Audubon and Bachman)

TREMATODA  
*Plagiorchis vespertilionis* (BC)

*Myotis lucifugus* (Le Conte) Little brown bat

PROTOZOA  
*Trypanosoma myoti* (Ont)  
TREMATODA  
*Lecithodendrium anticum* (not specified)  
*L. posticum* (not specified)  
*Plagiorchis vespertilionis* (BC)  
*Prosthodendrium swansoni* (BC)  
*Prosthodendrium* sp. (BC)  
CESTOIDEA  
*Hymenolepis* sp. (BC)  
NEMATODA  
*Capillaria eubursata* (BC)  
*Rictularia lucifugus* (BC)  
*Rictularia* sp. (BC)

*Myotis volans longicrus* (True) Long-legged bat

TREMATODA  
*Plagiorchis vespertilionis* (BC)  
*Prosthodendrium naviculum* (BC)  
NEMATODA  
*Allintoshius nycticeius* (BC)  
*Rictularia lucifugus* (BC)

*Myotis yumanensis saturatus* Miller Yuma bat  
Syn.: *Myotis saturatus* Miller

PROTOZOA  
*Trypanosoma evotomys* (BC)

## ORDER INSECTIVORA

### FAMILY SORICIDAE

*Blarina brevicauda* (Say) Short-tailed shrew  
PROTOZOA

*Toxoplasma gondii* (Ont)  
*Trypanosoma soricis* (Ont)  
NEMATODA  
*Metastrongyloidea* gen. sp. larva (Ont)

*Sorex cinereus* Kerr Masked shrew  
NEMATODA  
*Capillaria plica* (Que)

*Sorex fumeus* Miller Smoky shrew  
NEMATODA  
*Metastrongyloidea* gen. sp. larva (Ont)

*Sorex vagrans* Baird Vagrant shrew  
PROTOZOA  
*Trypanosoma soricis* (BC)  
NEMATODA  
*Trichinella spiralis* larva (BC)

## ORDER LAGOMORPHA

### FAMILY LEPORIDAE

*Lepus americanus* Erxleben Snowshoe rabbit  
PROTOZOA

*Eimeria athabascensis* (Alta)  
*E. holmesi* (Alta)  
*E. keithi* (Alta)  
*E. leporis* (Alta)  
*E. robertsoni* (Alta)  
*E. rochesterensis* (Alta)  
*E. rowani* (Alta)  
*E. ruficaudati* (Alta)  
*E. townsendi* (Alta)  
*Eimeria* sp. (Man)  
CESTOIDEA  
*Cittotaenia pectinata americana* (Man)  
*Taenia macrocystis* larva (NB, NS)  
*T. pisiformis* cysticercus (Alta, Man, Nfld)  
*T. serialis* coenurus (Alta, Man, Nfld)  
NEMATODA  
*Dirofilaria scapiceps* (Alta, NWT, Ont)  
Nematoda gen. sp. (Nfld)  
*Nematodirus triangularis* (Man, Nfld)  
*Obeliscoides cuniculi* (Alta)  
*O. c. multistriatus* (Alta, Ont)

- Passalurus nonanulatus* (Man)  
*Protostrongylus boughtoni* (Alta, Man, NB, Ont, Que)  
*Strongyloides papillosus* (Man)  
*Synthetocaulus leporis* (Man)  
*Trichostrongylus* sp. (Man)  
*Trichuris leporis* (Man)  
ACANTHOCEPHALA  
*Acanthocephala* gen. sp. (Man)
- Lepus americanus americanus* Erxleben  
NEMATODA  
*Protostrongylus boughtoni* (Alta)
- Lepus americanus pallidus* Cowan  
CESTOIDEA  
*Taenia serialis* cysts (BC)
- Lepus americanus struthopus* Bangs  
TREMATODA  
*Dicrocoelium dendriticum* (Nfld)  
CESTOIDEA  
*Cittotaenia pectinata* (Nfld)  
*Multiceps* sp. cyst (Nfld)  
*Taenia pisiformis* cysticercus (Nfld)  
*T. taeniaformis* cysticercus (Nfld)  
NEMATODA  
*Dirofilaria scapiceps* (NB)  
*Obeliscoides cuniculi* (Nfld)
- Lepus capensis* L. Cape hare  
NEMATODA  
*Dirofilaria scapiceps* (Ont)  
*Obeliscoides cuniculi cuniculi* (Ont)
- Oryctolagus cuniculus* (L.) Lab rabbit  
Syn.: *Lepus cuniculus* L.  
TREMATODA  
*Fascioloidea magna* (Alta, BC)  
NEMATODA  
*Dirofilaria scapiceps* (Ont)  
*Obeliscoides cuniculi cuniculi* (Ont)  
*O. c. multistriatus* (Ont)  
*Protostrongylus boughtoni* (Alta)
- Sylvilagus floridanus* (Allen) Eastern cottontail  
PROTOZOA  
*Toxoplasma gondii* (Ont)  
NEMATODA  
*Dirofilaria scapiceps* (Ont)  
*Obeliscoides cuniculi cuniculi* (Ont)
- Sylvilagus nuttallii* (Bachman) Cottontail  
Syn.: *Lepus sylvaticus* Allen  
PROTOZOA  
*Trypanosoma leporis-sylvaticus* (Alta)
- FAMILY OCHOTONIDAE
- Ochotona collaris* (Nelson) Collared pika  
PROTOZOA  
*Eimeria banffensis* (Alta, YT)  
*E. barretti* (Alta, YT)  
*E. calentinei* (Alta, YT)  
*E. circumborealis* (Alta, YT)  
*E. klondikensis* (Alta, YT)  
*E. princepsis* (Alta, YT)  
*Isospora marquardtii* (Alta, YT)  
*I. yukonensis* (YT)  
CESTOIDEA  
*Schizorchis caballeroi* (YT)  
NEMATODA  
*Cephaluris alaskensis* (Alta, YT)  
*Cephaluris coloradensis* (Alta, YT)  
*Lablostomum rauschi* (YT)  
*L. talkeetnae* (YT)
- Ochotona princeps* (Richardson) Pika  
PROTOZOA  
*Eimeria barretti* (Alta, YT)  
*E. calentinei* (Alta, YT)  
*E. circumborealis* (Alta, YT)  
*E. klondikensis* (Alta, YT)  
*E. princepsis* (Alta, YT)  
*E. worleyi* (Alta)  
Eucoccidiida gen. sp. (Alta)  
*Isospora marquardtii* (Alta, YT)  
CESTOIDEA  
*Schizorchis caballeroi* (Alta)  
*S. ochotonae* (Alta)  
NEMATODA  
*Cephaluris alaskensis* (Alta, YT)  
*Graphidiella ochotonae* (Alta)  
*Lablostomum coloradensis* (Alta)  
*Murielus harpespiculus* (Alta)  
*Physaloptera bispiculata* (Alta)
- LAGOMORPHA OF UNDETERMINED SPECIES
- Cottontail  
CESTOIDEA  
*Cysticercus pisiformis* (Ont)
- Lab rabbit  
TREMATODA  
*Diplostomum spathaceum* (Ont)  
CESTOIDEA  
*Cysticercus pisiformis* (Ont)
- Rabbit  
PROTOZOA  
Eucoccidiida gen. sp. (Ont)  
CESTOIDEA  
*Cysticercus pisiformis* (Ont)

Unidentified Leporidae  
PROTOZOA  
*Trypanosoma evotomys* (BC)

*Protospirura ascaroidea* (Alta)  
*Trichuris fossor* (Alta)

Varying hare  
CESTOIDEA  
*Cysticercus pisiformis* (Ont)  
*Multiceps serialis* (Ont)

## ORDER RODENTIA

### FAMILY CASTORIDAE

*Castor canadensis* Kuhl Beaver  
TREMATODA  
*Echinostoma revolutum* (NS)  
*Stephanoproraoides lawi* (NS, Ont)  
*Stichorchis subtriquetrus* (Alta, Nfld, NS, Ont, Que)  
NEMATODA  
*Castorstrongylus castoris* (Alta, NB, Nfld)  
*Dipetalonema sprenti* (Ont)  
*D. sprenti* microfilaria (Ont)  
*Travassosius americanus* (Alta, NB, Nfld, NS)  
ACANTHOCEPHALA  
*Polymorphus paradoxus* (Alta)

*Castor canadensis leucodontus* Gray  
TREMATODA  
*Stichorchis subtriquetrum* (BC)

### FAMILY CAVIIDAE

*Cavia porcellus* L. Guinea pig  
TREMATODA  
*Fascioloides magna* (Alta, BC)  
NEMATODA  
*Anisakis* sp. (Que)  
*Parelaphostrongylus tenuis* (Ont)

### FAMILY ERETHIZONTIDAE

*Erethizon dorsatum* (L.) Porcupine  
TREMATODA  
*Schistosomatium douthitti* (Ont)  
*S. douthitti* ova (Ont)

### FAMILY GEOMYIDAE

*Thomomys talpoides* (Richardson) Northern pocket gopher  
CESTOIDEA  
*Paranoplocephala variabilis* (Alta)  
*Taenia mustelae* metacestode (Alta)  
NEMATODA  
*Capillaria hepatica* (Alta)  
*Litomosoides carinii* (Alta)

### FAMILY MURIDAE

*Clethrionomys gapperi* (Vigors) Gapper's red-backed vole  
TREMATODA  
*Plagiorchis* sp. (Lab, Que)  
CESTOIDEA  
*Andrya communis* (Alta)  
*A. macrocephala* (Alta, Nfld, Que)  
*Andrya* sp. (Nfld, Que)  
*Catenotaenia dendritica* (Alta, Nfld, Que)  
Cestoidea gen. sp. (Nfld, Que)  
*Cladotaenia globifera* metacestode (Ont)  
*C. mirsoevi* (Alta)  
*Hymenolepis horrida* (Alta, Nfld, Que)  
*Paruterina rauschi* metacestode (Ont)  
*Taenia mustelae* metacestode (Alta, Ont, Que)  
NEMATODA  
*Capillaria hepatica* (Man, Ont)  
*Heligmosomum carolinensis* (Nfld, Que)  
*Protospirura muris* (Alta, Nfld, Ont)

*Clethrionomys g. gapperi* (Vigors)  
NEMATODA  
*Capillaria hepatica* (Ont)

*Clethrionomys gapperi saturatus* (Rhoads)  
PROTOZOA  
*Trypanosoma evotomys* (BC)

*Clethrionomys* sp.  
CESTOIDEA  
*Cladotaenia mirsoevi* (Alta)

*Dicrostonyx groenlandicus* Collared lemming (Traill)  
NEMATODA  
*Pelodera strongyloides* larva (NWT)

*Dicrostonyx groenlandicus richardsoni* Merriam  
CESTOIDEA  
*Andrya arctica* (Man)  
*Taenia crassiceps* cysticercus (Man)

*Dicrostonyx hudsonius* (Pallas) Labrador collared lemming  
CESTOIDEA  
*Paranoplocephala variabilis* (Nfld, Que)  
NEMATODA  
*Heligmosomum hudsonius* (Nfld, Que)

*Dicrostonyx torquatus* (Pallas) Collared lemming  
CESTOIDEA  
*Andrya arctica* (NWT)  
*Taenia crassiceps* cysticercus (NWT)



- Lemmus sibiricus* Kerr                      Brown lemming  
Syn.: *Lemmus trimucronatus* (Richardson)  
NEMATODA  
*Pelodera strongyloides* larva (NWT)
- Lemmus sibiricus trimucronatus* (Richardson)  
Syn.: *Lemmus trimucronatus trimucronatus*  
(Richardson)  
CESTODA  
*Paranoplocephala lemmi* (NWT)
- Meriones unguiculatus*                      Gerbil  
(Milne-Edwards, 1867)  
CESTOIDEA  
*Echinococcus multilocularis* hydatid cyst(Que)  
*E. multilocularis sibiricensis* (Que)  
*Taenia crassiceps* cysticercus (Man)
- Mesocricetus auratus*                      Golden hamster  
(Waterhouse, 1840)  
PROTOZOA  
*Giardia mesocricetus* (Ont)  
*G. microti* (Ont)  
*G. muris* (Ont)  
NEMATODA  
*Trichinella spiralis* (Man)
- Microtus chrotorrhinus* (Miller)              Rock vole  
CESTOIDEA  
*Andrya bairdi* (Nfld, Que)  
*A. macrocephala* (Alta, Nfld, Que)  
*Hymenolepis horrida* (Que)  
NEMATODA  
*Heligmosomoides polygyrus* (Nfld, Que)
- Microtus ochrogaster* (Wagner)              Prairie vole  
Syn.: *Pedomys ochrogaster* (Wagner)  
CESTOIDEA  
*Andrya macrocephala* (Alta)  
*Taenia mustelae* metacestode (Alta)
- Microtus pennsylvanicus* (Ord)              Meadow vole  
PROTOZOA  
*Giardia microti* (Ont)  
*Trypanosoma microti* (Ont)  
TREMATODA  
*Plagiorchis muris* (Nfld, Que)  
*Quinqueserialis quinqueserialis* (Nfld, Que)  
*Schistosomatium douthitti* (Man)  
CESTOIDEA  
*Andrya communis* (Alta)  
*A. macrocephala* (Alta, Nfld, Que)  
*Cladotaenia globifera* metacestode (Man)  
*Echinococcus multilocularis* hydatid cyst  
(Sask)  
*Hymenolepis horrida* (Alta)  
*Paranoplocephala infrequens* (Alta, Nfld, Que)
- P. variabilis* (Alta, Nfld, Que)  
*Paruterina candelabraria* plerocercoid (Man)  
*Taenia crassiceps* cysticercus (Ont)  
*T. mustelae* metacestode (Alta, Nfld, Ont, Que)  
NEMATODA  
*Capillaria hepatica* (Man)  
*Pelodera strongyloides* larva (NWT)  
*Rictularia coloradensis* (Alta)  
*Syphacia obvelata* (Nfld, Que)  
ACANTHOCEPHALA  
*Polymorphus paradoxus* (Alta)
- Microtus pennsylvanicus drummondii* (Audubon  
and Bachman)  
CESTOIDEA  
*Hymenolepis johnsoni* (NWT)  
*Taenia crassiceps* cysticercus (Man)  
*Taenia* sp. metacestode (Man)  
NEMATODA  
*Syphacia obvelata* (Man)
- Microtus p. pennsylvanicus* (Ord)  
NEMATODA  
*Capillaria hepatica* (Ont)
- Microtus p. terraenovae* (Bangs)  
TREMATODA  
*Brachylaima* sp. (Nfld)
- Microtus* sp. lab.  
PROTOZOA  
*Trypanosoma microti* (Ont)
- Mus musculus* L.                              House mouse  
PROTOZOA  
*Toxoplasma gondii* (Ont)  
TREMATODA  
*Alaria americana* mesocercaria (Ont)  
*A. arisaemoides* mesocercaria (Ont)  
CESTOIDEA  
*Choanotaenia nebraskensis* (Alta)  
*Taenia taeniaeformis* cysticercus (Alta)  
NEMATODA  
*Pelodera strongyloides* larva (NWT)  
*Syphacia obvelata* (Nfld)
- Mus musculus* (laboratory)                      House mouse  
CESTOIDEA  
*Echinococcus granulosus* (Lebanon Strain)  
(Que)  
*E. multilocularis sibiricensis* (Que)  
*Taenia crassiceps* cysticercus (Man)  
*Taenia mustelae* metacestode (Ont)  
NEMATODA  
*Capillaria hepatica* (Ont)  
*Trichinella spiralis* (Man, Que)  
*T. spiralis* larva (Man, NWT, Que)

- T. spiralis* cyst (Que)  
*T. s. var. pseudospiralis* (Man)  
*Trichuris muris* (Ont)
- Neotoma cinerea* (Ord) Bushy-tailed wood rat  
 CESTOIDEA  
*Andrya neotomae* (Alta)
- Ondatra zibethicus* (L.) Muskrat  
 PROTOZOA  
*Eimeria stiedae* (Ont)  
*Encephalitozoon cuniculi* (Sask)  
*Frenkelia microti* (Ont)  
 Protozoa gen. sp. (Man)  
 TREMATODA  
*Alaria craterum* (Ont)  
*A. mustelae* (Man, Ont)  
*Catantropus filamentis* (Ont)  
*Echinocasmus schwartzii* (Ont)  
*Echinoparyphium contiguum* (BC, Ont)  
*Echinoparyphium* sp. (NB)  
*Echinostoma callawayensis* (Ont)  
*E. revolutum* (BC, Man, NB, Ont, Que)  
*Echinostomum* sp. (Alta)  
*Metorchis conjunctus* (Ont)  
*Notocotylus filamentis* (Man)  
*N. quinqueserialis* (Ont)  
*N. urbanensis* (BC, NB, Ont)  
*Nudacotyle novicia* (NB, Ont)  
*Opisthorchis tonkai* (NB)  
*Plagiorchis noblei* (Man)  
*P. proximus* (BC, NB, Ont)  
*Psilostomum ondatrae* (Ont)  
*Quinqueserialis quinqueserialis* (BC, Man, NB, Ont)  
*Q. zibethicai* (Que)  
*Schistosomatium douthitti* (NB)  
*S. douthitti* ova (Man)  
*S. douthitti* immature (Man)  
*Wardius zibethicus* (Man, NB, Ont)  
 CESTOIDEA  
*Andrya macrocephala* (NB)  
*Cladotaenia cysticercus* (BC)  
*Cysticercus fasciolaris* (BC, Ont)  
*C. talpae* (Ont)  
*Echinococcus multilocularis sibiricensis* (Que)  
*Hymenolepis evaginata* (Alta, BC, NB, Ont)  
*H. octocoronata* (BC)  
*Hymenolepis* sp. (Alta, Man)  
*Taenia crassiceps* cysticercus (Ont)  
*T. mustelae* metacestode (BC, NB, Ont)  
*T. taeniaeformis* cysticercus (Man, Ont)  
*Taenia* sp. (Ont)  
 NEMATODA  
*Capillaria hepatica* (Alta, BC, Man, Ont)  
*C. michiganensis* (Man, Ont)  
*C. ransomia* (BC)
- Dracunculus insignis* (Ont)  
*Dracunculus* sp. (Ont)  
*Eustrongylides* sp. larva (Ont)  
*Heligmosomum carolinensis* (Man)  
*Trichuris opaca* (BC, Ont)  
 ACANTHOCEPHALA  
*Polymorphus paradoxus* (Alta)  
*Polymorphus* sp. (BC, Man)
- Ondatra zibethicus obscurus* (Bangs)  
 TREMATODA  
*Diplostomum mergi* (Nfld)  
*Echinoparyphium contiguum* (Nfld)  
*E. recurvatum* (Nfld)  
*Echinostoma revolutum* (Nfld)  
 Paramphistomatidae gen. sp. (Nfld)  
*Plagiorchis proximus* (Nfld)  
*Quinqueserialis quinqueserialis* (Nfld)  
 CESTOIDEA  
*Anoplocephalid* (Nfld)  
*Hymenolepis evaginata* (Nfld)  
 NEMATODA  
*Capillaria michiganensis* (Nfld)  
*Trichostrongylus calcaratus* (Nfld)
- Ondatra zibethicus osoyoosensis* (Lord)  
 CESTOIDEA  
*Taenia taeniaeformis* cysticercus (BC)
- Peromyscus leucopus* White-footed mouse  
 (Rafinesque)  
 CESTOIDEA  
*Taenia mustelae* metacestode (NWT)  
 NEMATODA  
*Capillaria hepatica* (Ont)
- Peromyscus leucopus noveboracensis* (Fischer)  
 NEMATODA  
*Capillaria hepatica* (Ont)
- Peromyscus maniculatus* (Wagner) Deer mouse  
 PROTOZOA  
*Eimeria arizonensis* (BC)  
*E. siniffi* (BC)  
*Giardia peromysci* (Ont)  
*Toxoplasma gondii* (Ont)  
*Trypanosoma peromysci* (Alta)  
 TREMATODA  
*Alaria americana* mesocercaria (Ont)  
*A. arisaemoides* mesocercaria (Ont)  
 Digenea gen. sp. metacercaria (Que)  
*Postharmostomum helici* (Que)  
 CESTOIDEA  
*Choanotaenia peromysci* (Alta)  
*Cladotaenia globifera* metacestode (Ont)  
*Echinococcus multilocularis* hydatid cyst  
 (Alta, Man)

- Paruterina candelabraria* plerocercoid (Man)  
*P. rauschi* (Ont)  
*Taenia crassiceps* cysticercus (Ont)  
*T. mustelae* metacestode (Nfld, Ont, Que)  
 NEMATODA  
*Capillaria hepatica* (Alta, Man, Ont)  
*Capillaria* sp. (Que)  
*Metastrongyloidea* gen. sp. larva (Ont)  
*Pelodera strongyloides* larva (NWT)  
*Protospirura muris* (Que)  
*Syphacia peromysci* (Que)  
*Trichinella spiralis* larva (BC)
- Peromyscus maniculatus gracilis* (Le Conte)  
 CESTOIDEA  
*Hymenolepis bennetti* (Ont)
- Peromyscus maniculatus nebrascensis* (Coues)  
 PROTOZOA  
*Trypanosoma peromysci* (Alta)
- Phenacomys intermedius* Merriam Heather vole  
 CESTOIDEA  
*Andrya communis* (Alta)  
*Paranoplocephala variabilis* (Alta)  
 NEMATODA  
*Heligmosomoides polygyrus* (Alta)
- Rattus norvegicus* (Berkenhout) Norway rat  
 PROTOZOA  
*Chilomastix bettencourti* (Que)  
*Eimeria carinii* (Que)  
*E. miyairii* (Que)  
*E. separata* (Que)  
*Entamoeba muris* (Que)  
*Giardia muris* (Ont, Que)  
*G. simoni* (Ont)  
*Toxoplasma gondii* (Ont)  
*Trichomonas muris* (Que)  
 CESTOIDEA  
*Cysticercus fasciolaris* (Que)  
*Hymenolepis diminuta* (Que)  
*H. murina* (Que)  
*Hymenolepididae* gen. sp. (Nfld)  
*Taenia taeniaeformis* cysticercus (Nfld)  
 NEMATODA  
*Capillaria hepatica* (Que)  
*Heterakis spumosa* (Nfld, Que)  
*Nippostrongylus muris* (Que)  
*Protospirura muris* (Que)  
*Strongyloides ratti* (Que)  
*Trichosomoides crassicauda* (Que)
- Rattus* sp. Wild rat  
 PROTOZOA  
*Trypanosoma lewisi* (Ont)  
 NEMATODA  
*Trichinella spiralis* (NB, NS, PEI)
- T. spiralis* larva (BC, NB, NS, PEI)
- Sigmodon hispidus* Say and Ord Cotton rat  
 TREMATODA  
*Metorchis conjunctus* (Que)  
 CESTOIDEA  
*Echinococcus granulosus* (Lebanon strain)  
 (Que)  
*E. multilocularis* hydatid cyst (Que)  
*E. m. sibiricensis* (Que)  
*Taenia crassiceps* cysticercus (Man)
- Synaptomys borealis* Northern bog lemming  
 (Richardson)  
 CESTOIDEA  
*Andrya arctica* (Alta)  
*Paranoplocephala infrequens* (Nfld, Que)  
*Taenia mustelae* metacestode (Nfld, Que)
- Synaptomys cooperi cooperi* Baird  
 NEMATODA  
*Capillaria hepatica* (Ont)
- MURIDAE OF UNDETERMINED SPECIES
- Field mice  
 PROTOZOA  
*Giardia microti* (NS)
- Hamster (Lab)  
 PROTOZOA  
*Giardia microti* (Ont)  
*G. muris* (Ont)  
 TREMATODA  
*Diplostomum spathaceum* (Ont)
- Mouse (Lab)  
 PROTOZOA  
*Giardia muris* (NS, Ont)  
 TREMATODA  
*Alaria americana* mesocercaria (Ont)  
*A. arisaemoides* mesocercaria (Ont)  
*Diplostomum spathaceum* (Ont)  
 CESTOIDEA  
*Echinococcus granulosus canadensis* hydatid  
 cyst (Que)  
*E. multilocularis* hydatid cyst (Que)  
*E. m. sibiricensis* (Que)  
*Taenia crassiceps* cysticercus (Man, Ont)
- NEMATODA  
*Capillaria hepatica* (Ont)  
*Trichinella* sp. (Man)
- Muskrat  
 NEMATODA  
*Dracunculus insignis* (Ont)
- Rat (Lab)



- PROTOZOA**  
*Giardia mesocricetus* (Ont)  
*G. muris* (NS)  
*G. simoni* (Ont)  
**CESTOIDEA**  
*Echinococcus multilocularis sibiricensis*  
 hydatid cyst (Que)  
**NEMATODA**  
*Trichinella spiralis* (Man)  
*T. spiralis* cyst/larva (BC)
- FAMILY SCIURIDAE**
- Eutamias amoenus* (J. A. Allen)      Yellow-pine  
**NEMATODA**      chipmunk  
*Syphacia eutamii* (Alta)
- Eutamias minimus* (Bachman)      Least chipmunk  
**PROTOZOA**  
*Trypanosoma tamiasi* (Ont)  
**CESTOIDEA**  
*Hymenolepis* sp. (Sask)  
*Taenia mustelae* metacestode (Ont, Sask)  
**NEMATODA**  
*Citellinema bifurcatum* (Sask)  
*Heteroxynema cucullatum* (Sask)
- Glaucomyssabrinus* (Shaw)      Northern flying  
**PROTOZOA**      squirrel  
*Eimeria dorneyi* (Ont)  
**TREMATODA**  
*Plagiorchis proximus* (Sask)  
**CESTOIDEA**  
*Andrya sciuri* (Sask)  
*Cladotaenia globifera* metacestode (Sask)
- Marmota monax* (L.)      Woodchuck  
**CESTOIDEA**  
*Taenia crassiceps* cysticercus (Ont)  
*T. mustelae* metacestode (Ont)  
**NEMATODA**  
*Ackertia marmotae* (Ont)  
*Obeliscooides cuniculi cuniculi* (Ont)
- Marmota monax canadensis* (Erxleben)  
**NEMATODA**  
*Ackertia marmotae* (Ont, Que)
- Marmota vancouverensis* Swarth Vancouver Island  
**CESTOIDEA**      marmot  
*Diandrya vancouverensis* (BC)  
**NEMATODA**  
*Baylisascaris laevis* (BC)
- Sciurus carolinensis* Gmelin      Gray squirrel  
**PROTOZOA**  
*Eimeria confusa* (Ont)
- E. ontarioensis* (Ont)  
*Eimeria* sp. (Ont)  
**CESTOIDEA**  
*Taenia crassiceps* cysticercus (Ont)  
*Spermophilus columbianus*      Columbian ground  
 (Ord)      squirrel  
**PROTOZOA**  
*Eimeria bilamellata* (Alta)  
*E. callospermophili* (Alta)  
*E. lateralis* (Alta)  
*Trypanosoma otospermophili* (Alta, YT)  
**NEMATODA**  
*Trichinella spiralis* larva (BC)
- Spermophilus franklinii*      Franklin's ground  
 (Sabine)      squirrel  
**PROTOZOA**  
*Eimeria bilamellata* (Alta)  
*E. callospermophili* (Alta)  
*E. spermophili* (Alta)  
*Trypanosoma otospermophili* (Alta, YT)  
**TREMATODA**  
*Alaria mustelae* mesocercaria (Sask)  
*Plagiorchis proximus* (Sask)  
**CESTOIDEA**  
*Choanotaenia spermophili* (Sask)  
*Hymenolepis citelli* (Man, Sask)  
*Taenia mustelae* metacestode (Sask)  
*T. taxidiensis* cysticercus (Sask)  
**NEMATODA**  
*Capillaria hepatica* (Sask)  
*Citellinema bifurcatum* (Sask)  
*Physaloptera spinicauda* (Man, Sask)  
*P. spinicauda* larva (Sask)  
*Rictularia citelli* (Man)  
*Spirura infundibuliformes* (Sask)  
*S. infundibuliformes* larva (Sask)
- Spermophilus parryii* (Richardson) Arctic ground  
 Syn.: *Spermophilus undulatus plesius*  
 Osgood squirrel  
**PROTOZOA**  
*Trypanosoma otospermophili* (Alta, YT)
- Spermophilus richardsonii*      Richardson's  
 (Sabine)      ground squirrel  
**PROTOZOA**  
*Eimeria bilamellata* (Alta)  
*E. callospermophili* (Alta)  
*E. lateralis* (Alta)  
*E. spermophili* (Alta)  
*Sarcocystis campestris* (Sask)  
*Trypanosoma citelli* (Alta)  
*T. otospermophili* (Alta, YT)  
**TREMATODA**  
*Plagiorchis proximus* (Man, Sask)  
**CESTOIDEA**

- Choanotaenia spermophili* (Sask)  
*Hymenolepis citelli* (Man, Sask)  
*H. diminuta* (Alta)  
NEMATODA  
*Baylisascaris laevis* (Sask)  
*Baylisascaris* sp. larva (Sask)  
*Capillaria hepatica* (Sask)  
*Citellinema bifurcatum* (Man, Sask)  
*Physaloptera spinicauda* (Sask)  
*P. spinicauda* larva (Sask)  
*Spirura infundibuliformis* (Man, Sask)  
*S. infundibuliformis* larva (Sask)  
*Strongyloides robustus* (Sask)  
*Syphacia citelli* (Sask)  
*Trichostrongylus axei* (Sask)  
*Trichuris leporis* (Man)  
*Trichuris* sp. (Man, Sask)  
ACANTHOCEPHALA  
*Mediorhynchus robustus* (Sask)
- Spermophilus tridecemlineatus* Thirteen-lined  
(Mitchell)  
PROTOZOA ground squirrel  
*Trypanosoma otospermophili* (Alta, YT)  
CESTOIDEA  
*Cladotaenia circi* cysticeroid (Sask)  
*Hymenolepis citelli* (Man, Sask)  
*Taenia mustelae* metacestode (Sask)  
NEMATODA  
*Citellinema bifurcatum* (Sask)  
*Oxynema* sp. (Alta)  
*Physaloptera spinicauda* (Alta, Man, Sask)  
*P. spinicauda* larva (Sask)  
*Rictularia citelli* (Man)  
*Spirura infundibuliformis* (Man, Sask)  
*S. infundibuliformis* larvae (Sask)  
*Strongyloides robustus* (Sask)  
ACANTHOCEPHALA  
*Moniliformis spiradentatis* (Man)
- Tamias striatus* (L.) Eastern chipmunk  
PROTOZOA  
*Trypanosoma tamiassi* (Ont)  
TREMATODA  
*Scaphiostomum pancreaticum* (Ont)  
CESTOIDEA  
*Taenia crassiceps* cysticerous (Ont)  
*T. mustelae* metacestode (Ont)  
NEMATODA  
*Metastrongyloidea* gen. sp. larva (Ont)
- Tamiasciurus hudsonicus* (Erxleben) Red squirrel  
PROTOZOA  
*Eimeria tamiasciuri* (Alta)  
*E. toddi* (Alta)  
*Hepatozoon* sp. (Alta)  
TREMATODA
- Plagiorchis proximus* (Sask)  
CESTOIDEA  
*Andrya primordialis* (Alta, Sask)  
*Cladotaenia* sp. cysticerous (Alta)  
*Hymenolepis horrida* (Alta)  
*Paruterina candelabraria* plerocercoid (Alta, Sask)  
*Taenia crassiceps* cysticerous (Ont)  
*T. mustelae* metacestode (Alta, Ont)  
*T. rileyi* cysticerous (Alta)  
NEMATODA  
*Ascaris* sp. (Alta)  
*Capillaria hepatica* (Ont)  
*Citellinema bifurcatum* (Alta, Sask)  
*Physaloptera* sp. (Alta)  
*Strongyloides robustus* (Sask)  
*Syphacia thompsoni* (Alta, Sask)  
*Trichinella spiralis* larva (BC)
- Tamiasciurus hudsonicus hudsonicus* (Erxleben)  
NEMATODA  
*Citellinema bifurcatum* (Man)
- SCIURIDAE OF UNDETERMINED SPECIES
- Squirrel  
PROTOZOA  
*Trypanosoma* sp. (BC)
- FAMILY ZAPODIDAE
- Napaeozapus insignis insignis* Woodland  
(Miller) jumping  
Syn.: *Napaeozapus insignis algonquinensis*  
Prince mouse  
CESTOIDEA  
*Hymenolepis bennetti* (Ont)  
NEMATODA  
*Capillaria hepatica* (Ont)
- Zapus hudsonius* Meadow jumping mouse  
(Zimmermann)  
TREMATODA  
*Plagiorchis proximus* (Nfld, Que)  
*Quinqueserialis quinqueserialis* (Nfld, Que)  
CESTOIDEA  
*Choanotaenia* sp. (Alta)  
*Mesocestoides* sp. (Nfld, Que)  
*Taenia mustelae metacestode* (Ont)  
NEMATODA  
*Protospirura muris* (Nfld, Que)

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